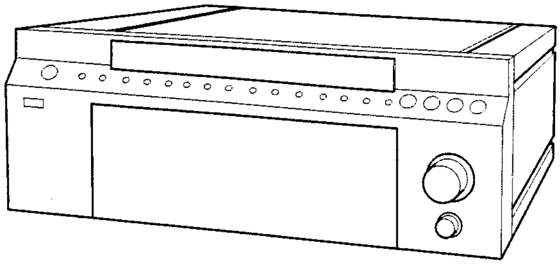
SONY-10364

TA-DA9000ES

SERVICE MANUAL

AEP Model
E Model

Ver 1.1 2003.12



This amplifier incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

** "DTS", "DTS-ES Extended Surround", and "Neo:6" are trademarks of Digital Theater Systems, Inc.

SPECIFICATIONS

Amplifier section

POWER OUTPUT
Rated Power Output at Stereo Mode1)
(8 ohms, 20 Hz – 20 kHz, THD 0.15%)
200 W + 200 W
(4 ohms, 20 Hz – 20 kHz, THD 0.15%)
220 W + 220 W
Reference Power Output
(8 ohms, 1 kHz, THD 0.09%)
FRONT2): 200 W + 200 W
CENTER2): 200 W
SURR2): 200 W + 200 W
SURR BACK2): 200 W + 200 W
(4 ohms, 1 kHz, THD 0.09%)
FRONT2): 220 W + 220 W
CENTER2): 220 W
SURR2): 220 W + 220 W
SURR BACK2): 220 W + 220 W

1) Depending on the sound field settings and the source, there may be no sound output.
2) Measured under the following conditions:

Area code	**Power requirements**
CEL	230 V AC, 50/60 Hz
TW	110 V AC, 60 Hz
KR	230 V AC, 60 Hz

Frequency response

PHONO	RIAA equalization curve ±0.5 dB
Power Amp Block	10 Hz – 50 kHz ± 3 dB (8 ohms)

Inputs (Analog)

PHONO	Sensitivity: 3.5 mV Impedance: 50 kilohms S/N3): 90 dB (A, 40 mV4))
CD/SACD, TAPE, MD/DAT, DVD, LD, TV/SAT, VIDEO 1, 2, 3, 4, 5	Sensitivity: 170 mV Impedance: 50 kilohms S/N3): 100 dB (A, 2V4))

3) Input shorted and sealed at VOL MAX.
4) Weighted network + 20 kHz LPF, input level.

Inputs (Digital)

CD/SACD, DVD, LD, VIDEO 1, TV/SAT (Coaxial)	Impedance: 75 ohms S/N: 100 dB (A Network, 20 kHz LPF)
CD/SACD, DVD, LD, TV/SAT, MD/DAT, VIDEO1, 3 (Optical)	S/N: 100 dB (A Network, 20 kHz LPF)

Outputs

TAPE, MD/DAT (REC OUT), VIDEO 1, 2, 3 (AUDIO OUT)	Voltage: 170 mV Impedance: 2.1 kilohms
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUB WOOFER	Voltage: 2 V Impedance: 220 ohms

EQUALIZER

Gain levels	±10 dB, 1 dB sep

Video section

Inputs/Outputs

Video:	1 Vp-p, 75 ohms
S-video:	Y: 1 Vp-p, 75 ohms C: 0.286 Vp-p, 75 ohms
COMPONENT VIDEO:	Y: 1 Vp-p, 75 ohms P_B/C_B/B-Y: 0.7 Vp-p, 75 ohms P_R/C_R/R-Y: 0.7 Vp-p, 75 ohms

– Continued on next page –

MULTI-CANNEL INTEGRATED AMPLIFIER

9-961-291-02
2003L05-1
© 2003.12

Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

i.LINK section

Pin	4 pins
Transmission speed	S200 (Maximum data transmission speed 200 Mbps)
Transmission protocol	A/M transmission protocol
Format (input)	Super Audio CD* (DSD PLAIN) 2 channel linear PCM (IEC-60958-3) Sampling frequency: 44.1 kHz

* Conforms to the copy protection technology of DTLA (Revision 1.2).

General

Power requirements

Area code	Power requirements
AEP	230 V AC, 50/60 Hz
Taiwan	110 V AC, 60 Hz
Korean	220 V AC, 60 Hz

Power consumption	600 W
Power consumption (during standby mode)	1 W

AC outlets

Area code	AC outlets
AEP	1 switched, 100 W MAX
except AEP	– (no AC outlet)

Dimensions	430 × 238 × 480 mm including projecting parts and controls
Mass (Approx.)	28.5 kg

Supplied accessories

AC power coad (1)
Easy Setup Guide (1)
Remote commander RM-LJ312 (1)
Operating Instructions for RM-LJ312 (1)
R6 (size-AA) batteries (3)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

LF: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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SECTION 1
SERVICING NOTES

NOTES ON REPLACEMENT OF I. LINK BOARD

New part of microcomputer (IC3002) and EEPROM (IC3001) on the I. LINK board cannot be used. Therefore, if the mounted I. LINK board (A-4733-835-A) is replaced, exchange new microcomputer and new EEPROM with that used before the replacement.

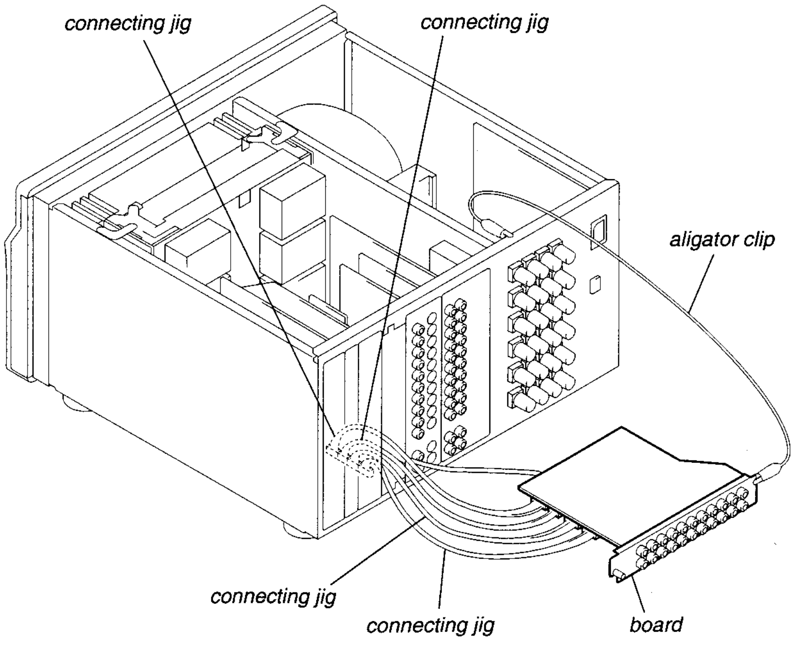
OPERATION CHECK OF STANDING BOARDS ON THE MOTHER BOARD

The standing boards connected to the MOTHER board via the connectors can be operated using the jig with the standing boards disconnected from the MOTHER board.

In such a case, for the board with the bracket (back panel), remove the board together with the bracket from the MOTHER board, and connect the bracket to the chassis using a cable attached with alligator clips for GND connection.

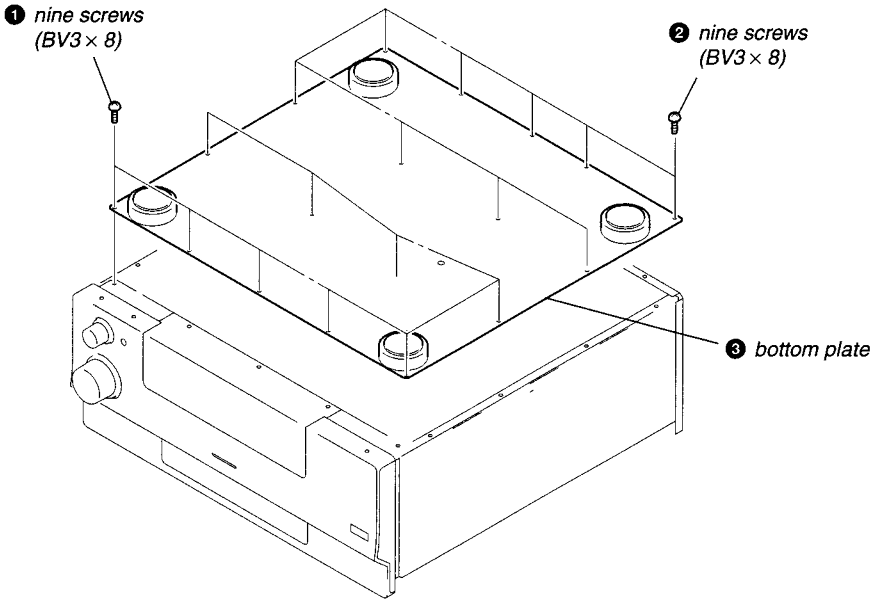
Board	Ref. No. of connector		Pitch/Pin	Part No. of jig
	Each board	MOTHER board		
DIGITAL board	CN2001	CNS801	1.25mm/20 pin	J-2501-260-A
	CN2002	CNS802	1.25mm/20 pin	J-2501-260-A
	CN2003	CNS803	1.25mm/16 pin	J-2501-258-A
	CN2004	CNS804	1.25mm/18 pin	J-2501-259-A
	CN2005	CNS805	1.25mm/20 pin	J-2501-260-A
I. LINK board	CN3501	CNS806	1.25mm/16 pin	J-2501-258-A
	CN3502	CNS807	1.25mm/18 pin	J-2501-259-A
	CN3503	CNS808	1.25mm/6 pin	J-2501-253-A
MAIN board	CN101	CNS810	1.25mm/14 pin	J-2501-257-A
	CN102	CNS811	1.25mm/14 pin	J-2501-257-A
	CN103	CNS809	1.25mm/8 pin	J-2501-254-A
	CN104	CNS825	1.25mm/20 pin	J-2501-260-A
	CN105	CNS824	1.25mm/10 pin	J-2501-255-A
PREOUT board	CN1201	CNS822	1.25mm/16 pin	J-2501-258-A
	CN1203	CNS823	1.25mm/10 pin	J-2501-255-A
SUB board	CN1003	CNS812	1.25mm/14 pin	J-2501-257-A
	CN1002	CNS813	1.25mm/14 pin	J-2501-257-A
	CN1001	CNS814	1.25mm/8 pin	J-2501-254-A
	CN1006	CNS826	1.25mm/12 pin	J-2501-256-A
VIDEO board	CN302	CNS816	1.25mm/18 pin	J-2501-259-A
	CN301	CNS815	1.25mm/8 pin	J-2501-254-A
S-VIDEO board	CN402	CNS817	1.25mm/20 pin	J-2501-260-A
	CN401	CNS818	1.25mm/6 pin	J-2501-253-A
COMPONENT board	CN1303	CNS819	1.25mm/20 pin	J-2501-260-A
	CN1302	CNS820	1.25mm/16 pin	J-2501-258-A
	CN1301	CNS821	1.25mm/20 pin	J-2501-260-A
AMP board	CN1501	CN824	2.5mm/20 pin	J-2501-262-A
	CN1507	CN816	2.5mm/6 pin	J-2501-261-A
	CN1508	CN815	2.5mm/6 pin	J-2501-261-A

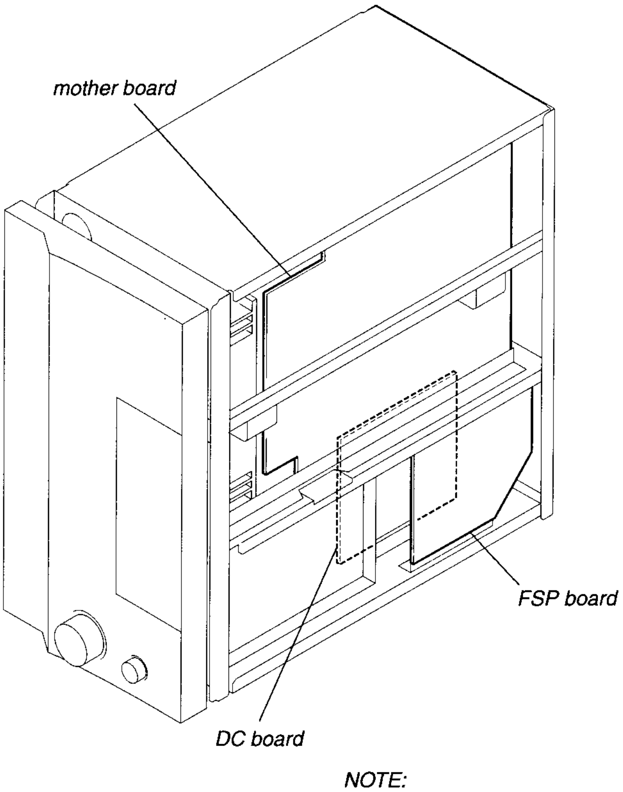
Example of Connection



Note: Follow the disassembly procedure in the numerical order given.

– BOTTOM VIEW –

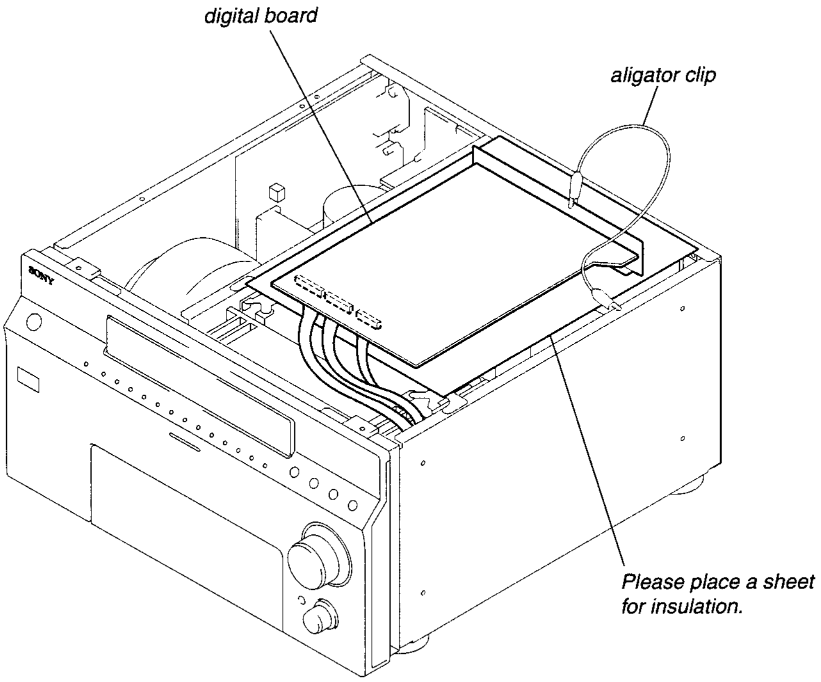

❶ nine screws
(BV3 × 8)
❷ nine screws
(BV3 × 8)
❸ bottom plate


mother board
FSP board
DC board

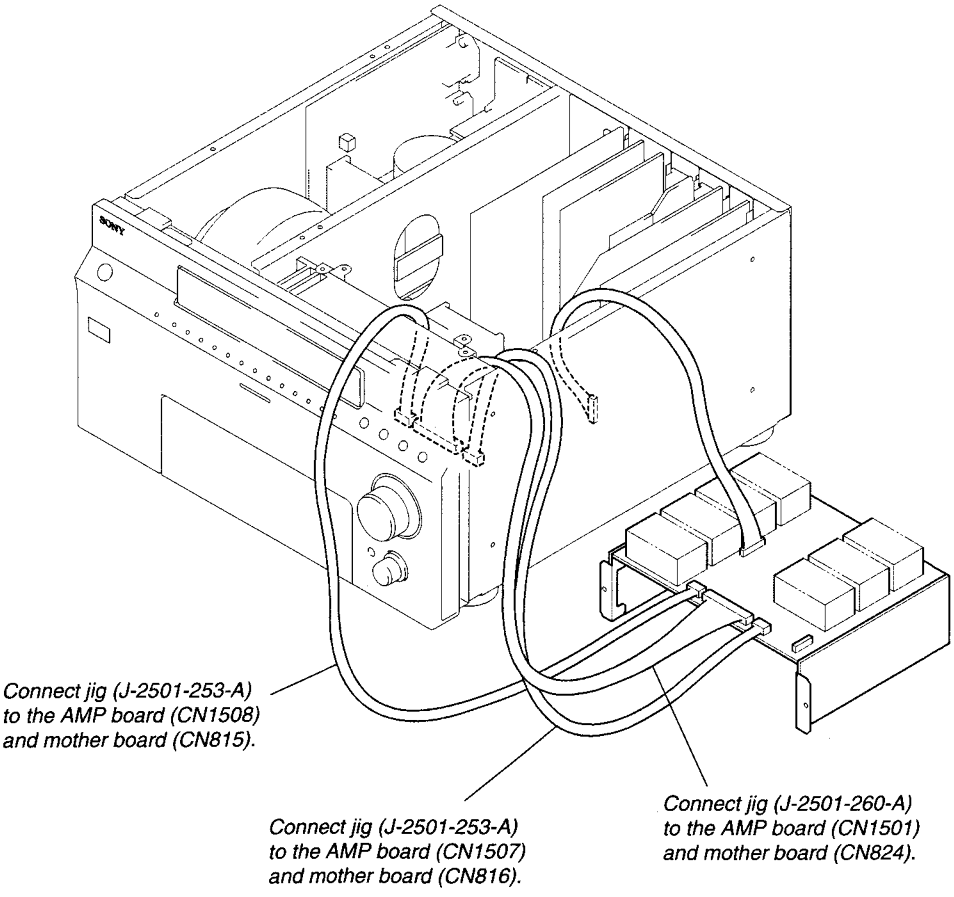
NOTE:
- *FSP board can be removed in this state.*
- *In the same state after removing a FSP board, the check of DC board can be performed.*

DIGITAL BOARD SERVICE POSITION

Note: Case (top) and Case (side-L)/(side-R) are removed.

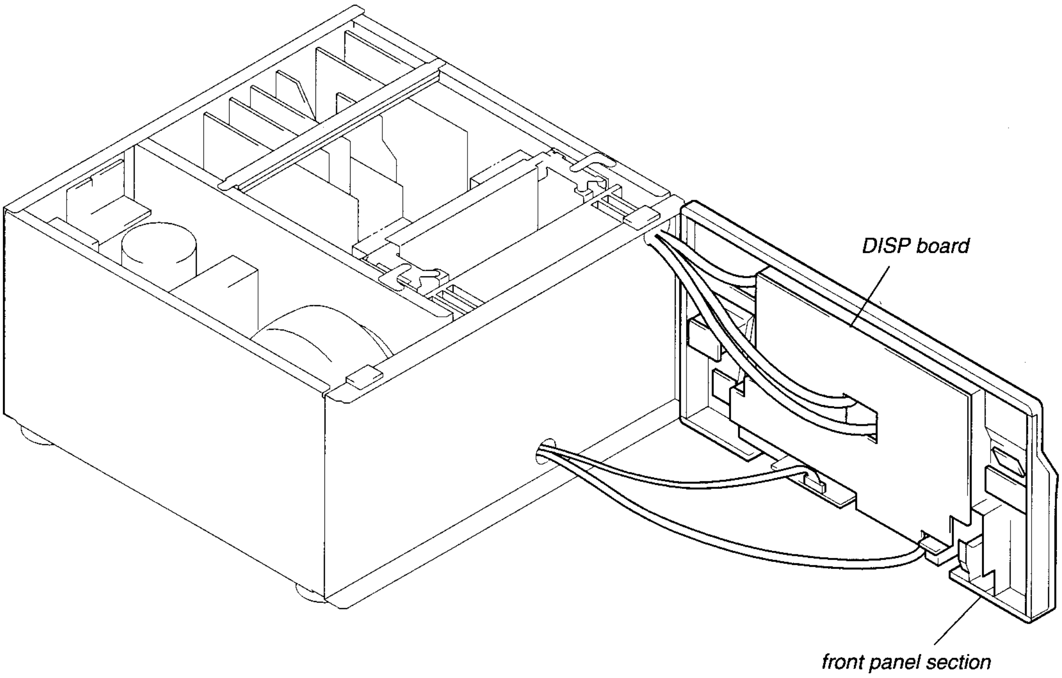

digital board
aligator clip
SONY
Please place a sheet
for insulation.

AMP BOARD SERVICE POSITION


SONY
Connect jig (J-2501-253-A)
to the AMP board (CN1508)
and mother board (CN815).
Connect jig (J-2501-253-A)
to the AMP board (CN1507)
and mother board (CN816).
Connect jig (J-2501-260-A)
to the AMP board (CN1501)
and mother board (CN824).

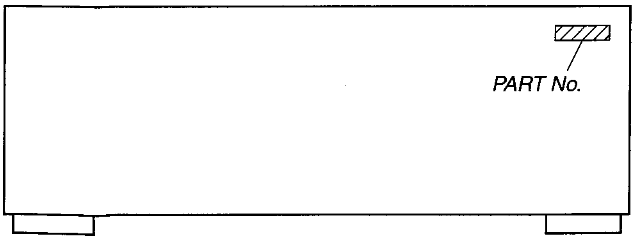
DISP BOARD SERVICE POSITION

Note: Please open a front panel on the right hand side of the set front.


DISP board
front panel section

• MODEL IDENTIFICATION

– Back Panel –



Model	PART No.
AEP model	4-248-144-1□
Korean model	4-248-144-2□
Taiwan model	4-248-144-3□

SECTION 2
GENERAL

This section is extracted from instruction manual.

LOCATION OF CONTROLS

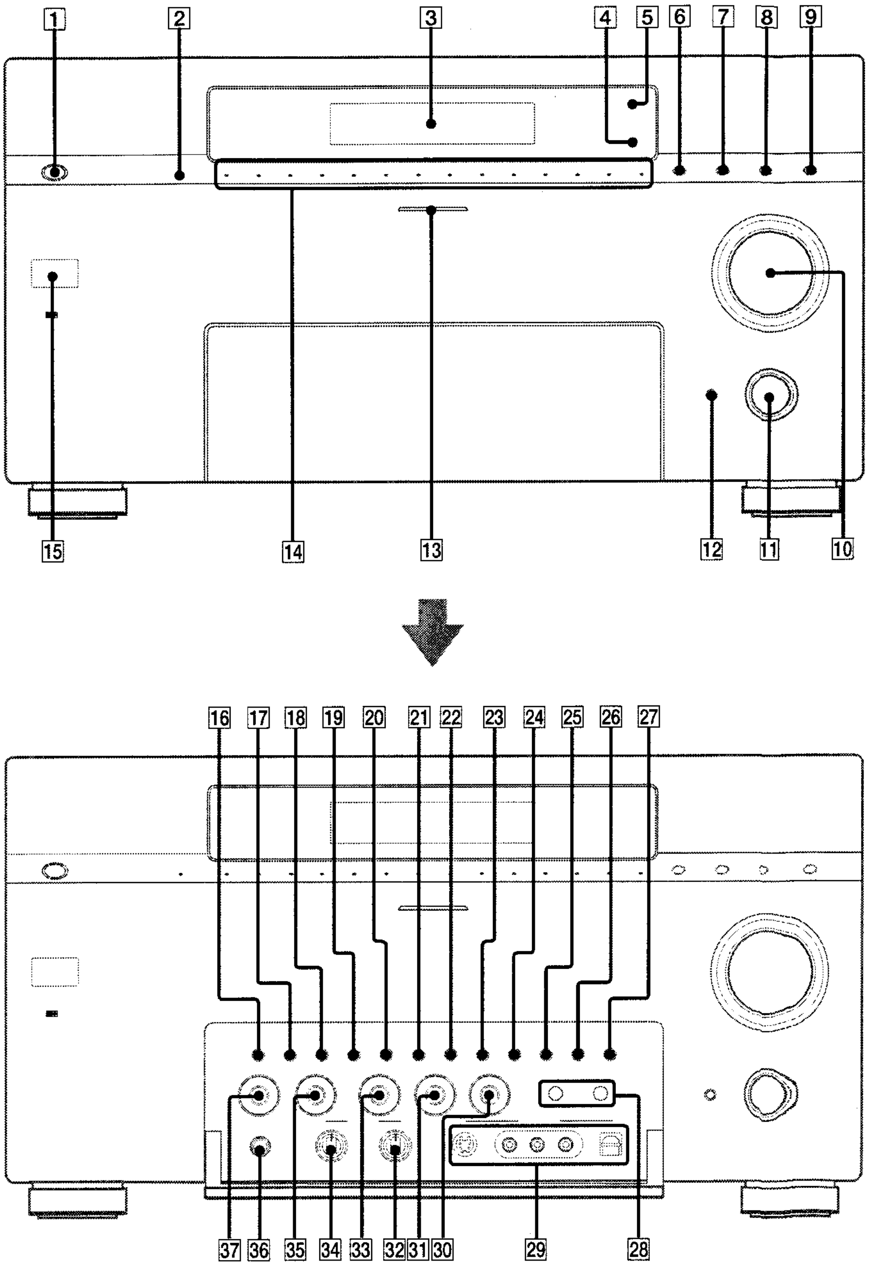
Main unit

ALPHABETICAL ORDER

A.F.D. 7
BASS 37
DECODE PRIORITY 24
Digital Cinema Sound indicator 5
DIMMER 16
DIRECT 25
DIRECT indicator 2
DISPLAY 23
Display 3
ENTER 21
Input indicators 14
INPUT MODE 12
INPUT SELECTOR 11
IR receptor 15
MAIN MENU 33
MASTER VOLUME 10
MENU 31
MOVIE 8
MULTI CH IN 1/2 26
MULTI CHANNEL DECODING indicator 13
MUSIC 9
NIGHT MODE 18
ON SCREEN 19
PHONES jack 36
REC OUT SELECTOR +/– 28
SB DEC indicator 4
SLEEP 17
SPEAKERS FRONT switch 34
SPEAKERS SURROUND switch 32
SURR BACK DECODING 27
TEST TONE 20
TREBLE 35
USER PRESET 22
VIDEO 5 INPUT jacks 29

NUMBERS AND SYMBOLS

2CH 6
I/⏻ (power) 1
-/+ 30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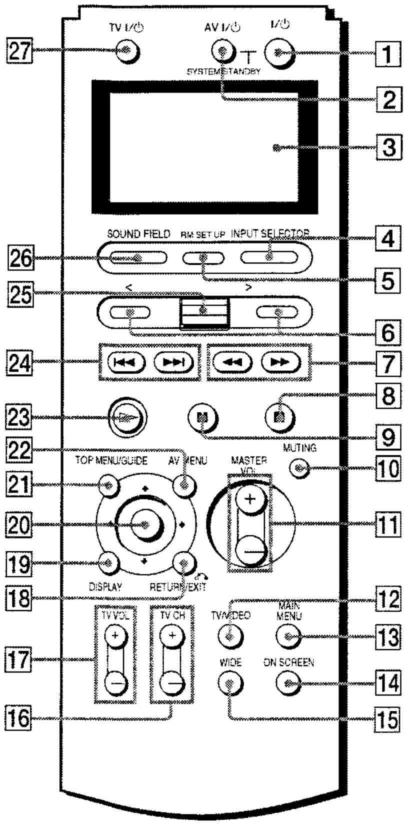
– Remote Commander –



I/⏻ [1]

Press to turn the receiver on or off.

AV I/⏻ [2]

Press to turn on or off the components that the remote is programmed to operate. For details on programming procedure, see P rogramming the remote on page 16.

If you press the I/⏻ switch ([1]) at the same time, it will turn off the main component and other Sony audio/video components (SYSTEM STANDBY).

Note

The function of the AV I/⏻ switch changes automatically each time you press INPUT SELECTOR ([4]). Depending on the component, the above operation may not be possible or may operate differently than described.

AV MENU [22]

Press to display the menus of the VCR, DVD player, or satellite tuner on the TV screen. Then use the control button to perform the menu operations.

Control button [20]

After pressing MAIN MENU, TOP MENU/GUIDE, or AV MENU, move the control button up, down, left or right to select the settings. When you press TOP MENU/GUIDE or AV MENU, press the button to enter the selection.

To perform menu operations on the VCR, DVD player, or SAT tuner, do the procedure below. If you do not do this, the cursor buttons merely operate the receiver.

1. Press INPUT SELECTOR and move the easy scroll key to select the input, then press the key to enter the selection.
2. Press MAIN MENU, TOP MENU/ GUIDE, or AV MENU.
   The CURSOR TYPE list appears. If the list has disappeared before you go on to step 3, press any of the cursor buttons to restore the list.
3. Move the easy scroll key to select the component that you selected in step 1, then press the key to enter the selection.

DISPLAY [19]

Press to select information displayed on the TV screen.

Display window [3]

The current status of the selected component or a list of selectable items appears here.

Note

Characters other than letters of the alphabet or numbers may be displayed incorrectly on the remote, even if they appear correctly in the display window on the main unit.

Easy scroll key [25]

While displaying a list, move up or down to select an item from the list, and then press to enter the selection.

INPUT SELECTOR [4]

Press to display the input (component) list.

MAIN MENU [13]

Press repeatedly to select a menu (SURROUND, etc.) for the receiver.

MASTER VOL +/– [11]

Press to adjust the volume level of all speakers at the same time.

MUTING [10]

Press to mute the sound.

ON SCREEN [14]

Press to display the menus of the receiver on the TV screen.

RETURN ↶/EXIT [18]

Press to return to the previous menu or exit the menu while the menu or guide of the VCR, DVD player, or satellite tuner is displayed on the TV screen.

RM SET UP [5]

Press to display the set up list.

SOUND FIELD [26]

Press to display the sound field list.

TOP MENU/GUIDE [21]

Press to display the menu or guide of the DVD player or satellite tuner on the TV screen. Then use the control button to perform the menu operations.

TV I/⏻ [27]

Press to turn TV on or off.

TV/VIDEO [12]

Press to change the input mode of the TV.

TV CH +/– [16]

Press to switch the channel of TV.

TV VOL +/– [17]

Press to adjust the volume of TV.

WIDE [15]

Press to switch the TV to the wide mode.

</> [6]

Press to change the information displayed on the display. Press the < button repeatedly to display the RECEIVER menu, press the > button repeatedly to display the SUB menu or NUM menu.

In the NUM menu, move the easy scroll key to select the numeric value, then press the key to enter the selection.

▷ [23]

Press to start play of the playback medium.

II [9]

Press to pause play or recording, or press to start recording when the component is in recording standby.

■ [8]

Press to stop play.

⏮/⏭ [24]

Press to skip tracks.

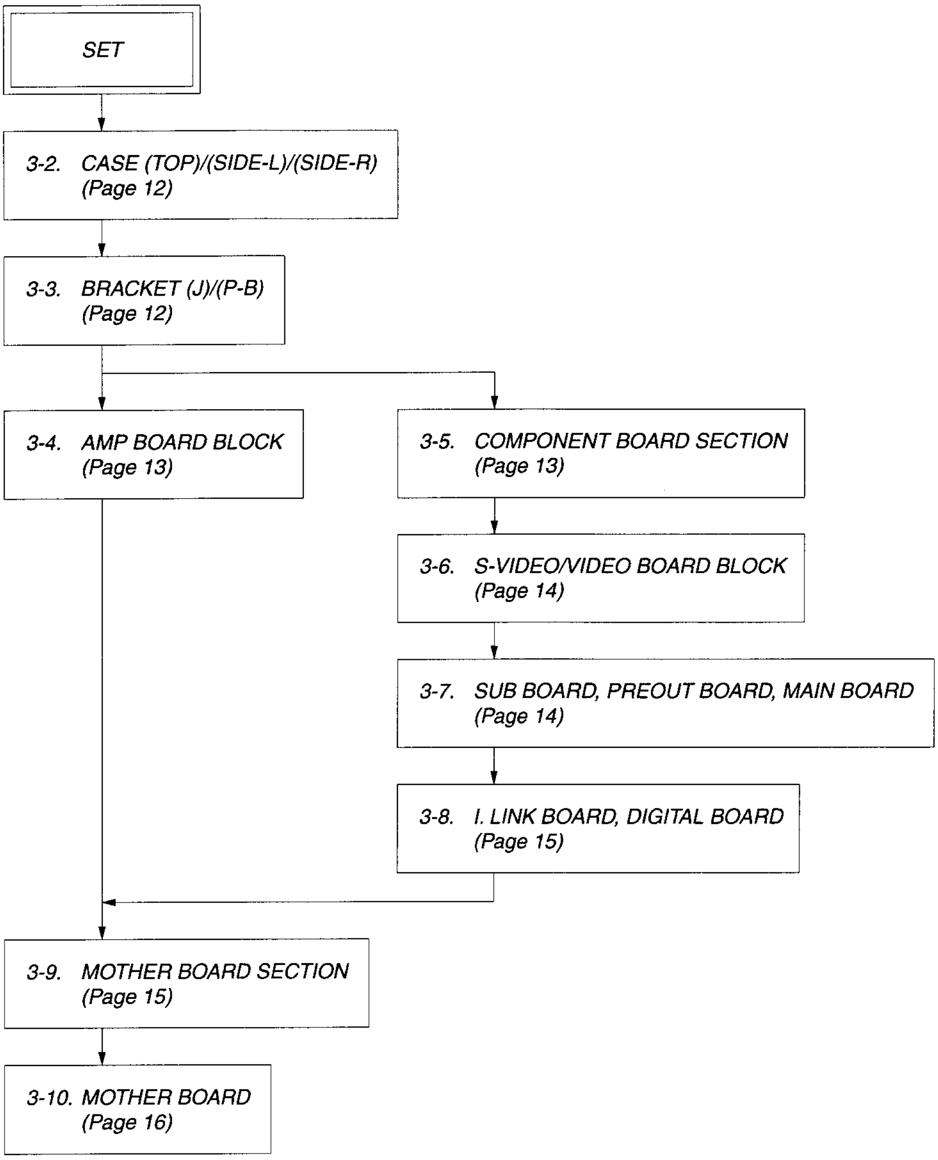
◀◀/▶▶ [7]

Press to fast-forward or rewind, or search tracks in the forward or backward direction.

SECTION 3
DISASSEMBLY

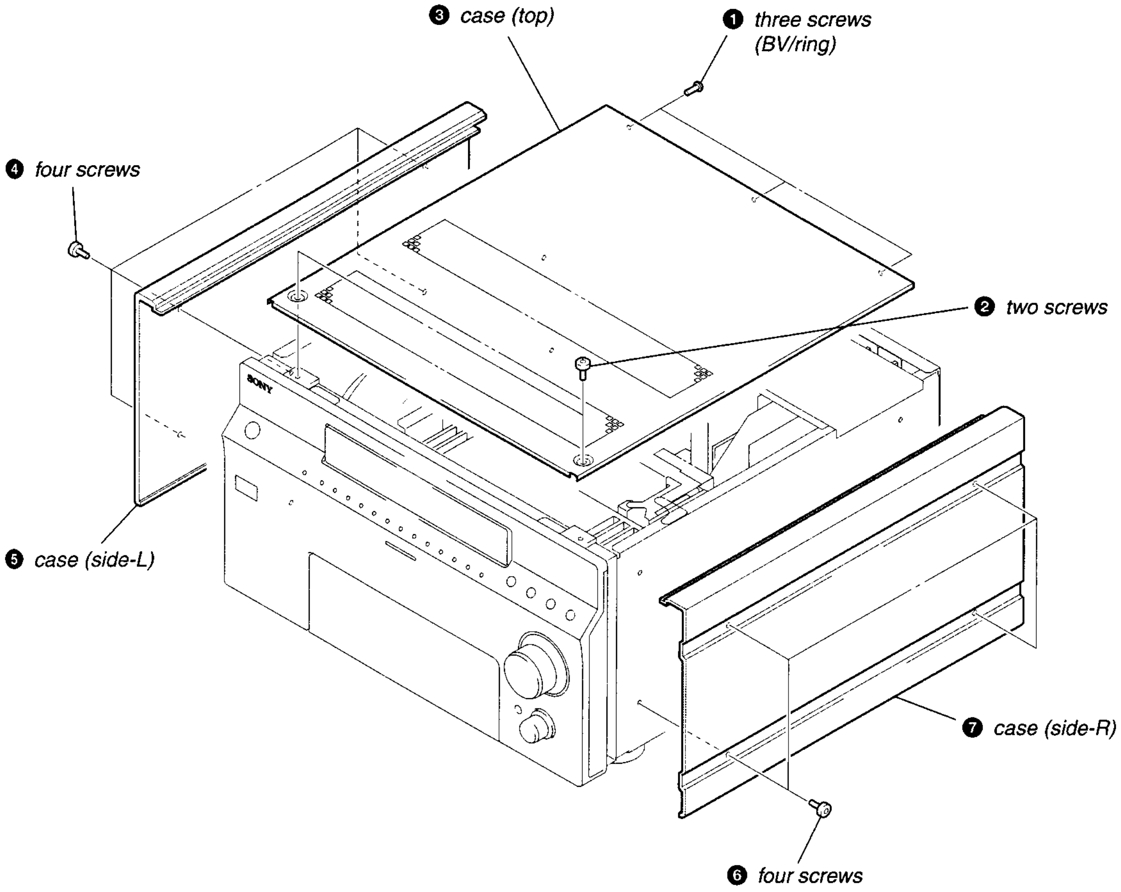
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

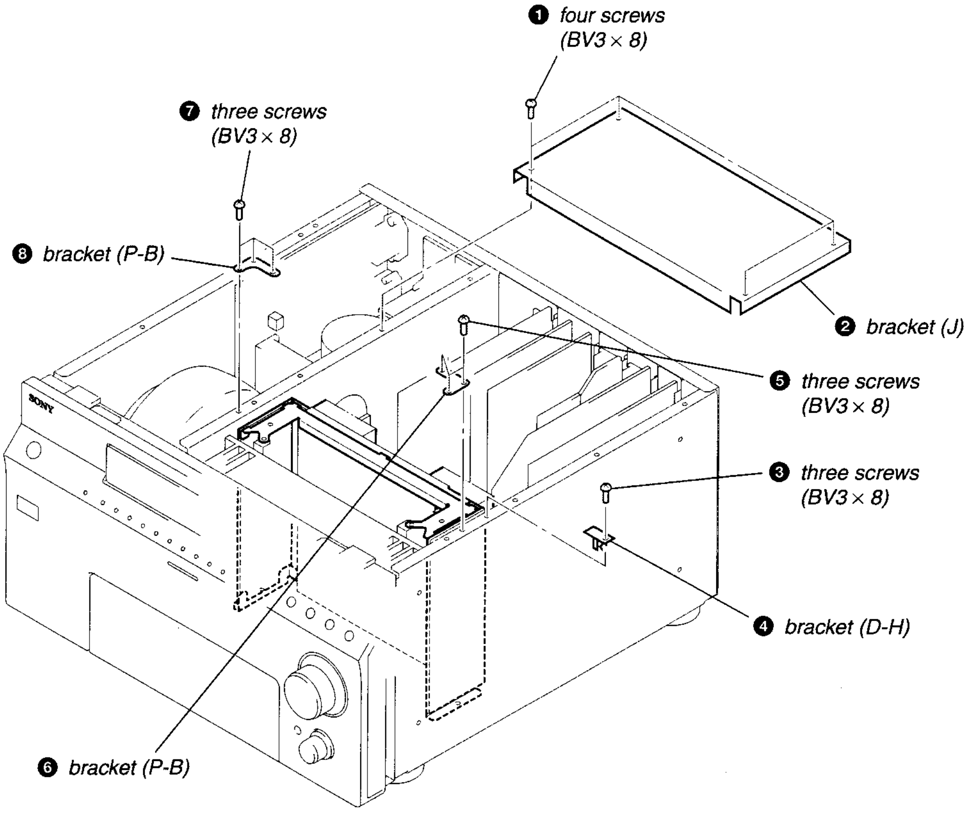

SET
3-2. CASE (TOP)/(SIDE-L)/(SIDE-R) (Page 12)
3-3. BRACKET (J)/(P-B) (Page 12)
3-4. AMP BOARD BLOCK (Page 13)
3-5. COMPONENT BOARD SECTION (Page 13)
3-6. S-VIDEO/VIDEO BOARD BLOCK (Page 14)
3-7. SUB BOARD, PREOUT BOARD, MAIN BOARD (Page 14)
3-8. I. LINK BOARD, DIGITAL BOARD (Page 15)
3-9. MOTHER BOARD SECTION (Page 15)
3-10. MOTHER BOARD (Page 16)

Note: Follow the disassembly procedure in the numerical order given.

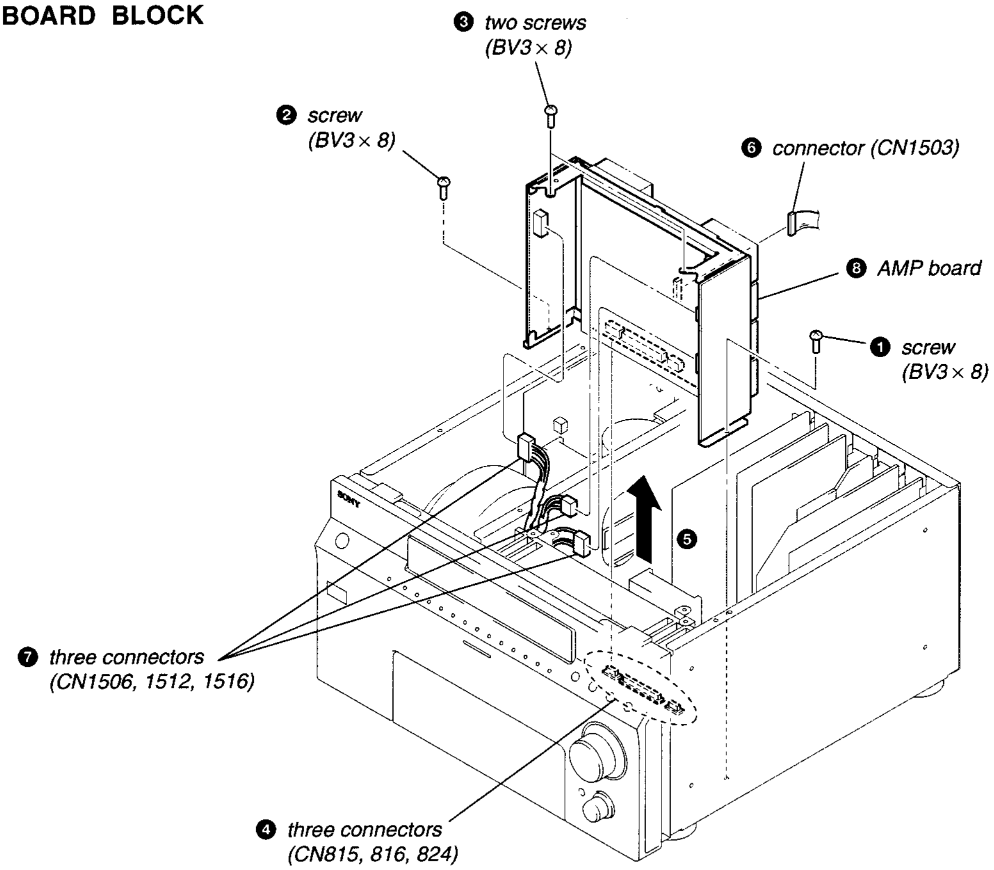
3-2. CASE (TOP)/(SIDE-L)/(SIDE-R)


❸ case (top)
❶ three screws (BV/ring)
❹ four screws
❷ two screws
❺ case (side-L)
❼ case (side-R)
❻ four screws

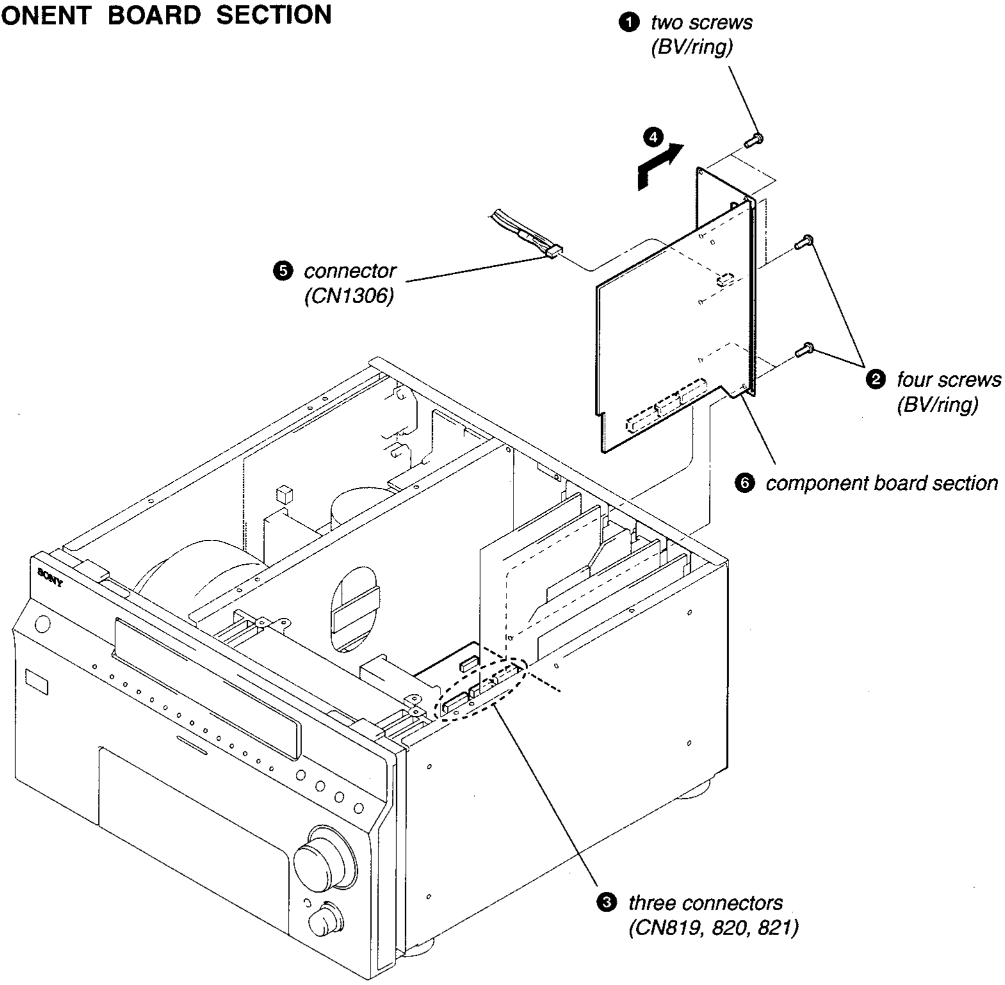
3-3. BRACKET (J)/(P-B)


❶ four screws (BV3 × 8)
❼ three screws (BV3 × 8)
❽ bracket (P-B)
❷ bracket (J)
❺ three screws (BV3 × 8)
❸ three screws (BV3 × 8)
❹ bracket (D-H)
❻ bracket (P-B)

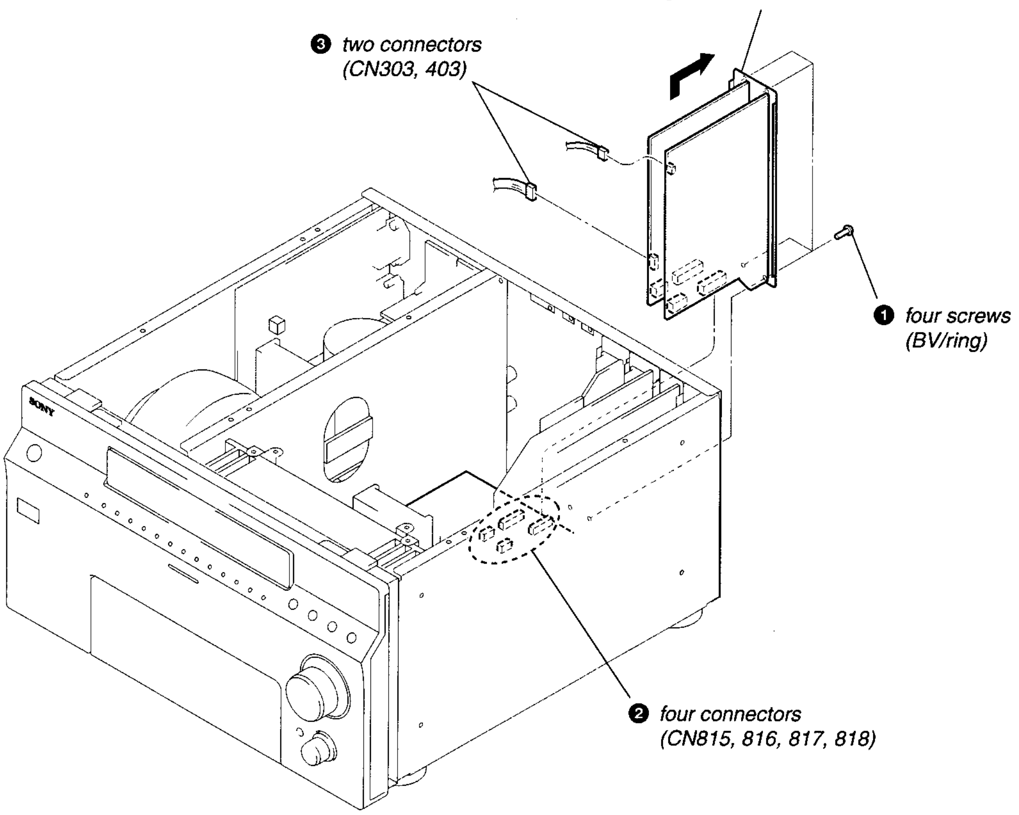
3-4. AMP BOARD BLOCK


❸ two screws
(BV3 × 8)
❷ screw
(BV3 × 8)
❻ connector (CN1503)
❽ AMP board
❶ screw
(BV3 × 8)
❺
❼ three connectors
(CN1506, 1512, 1516)
❹ three connectors
(CN815, 816, 824)

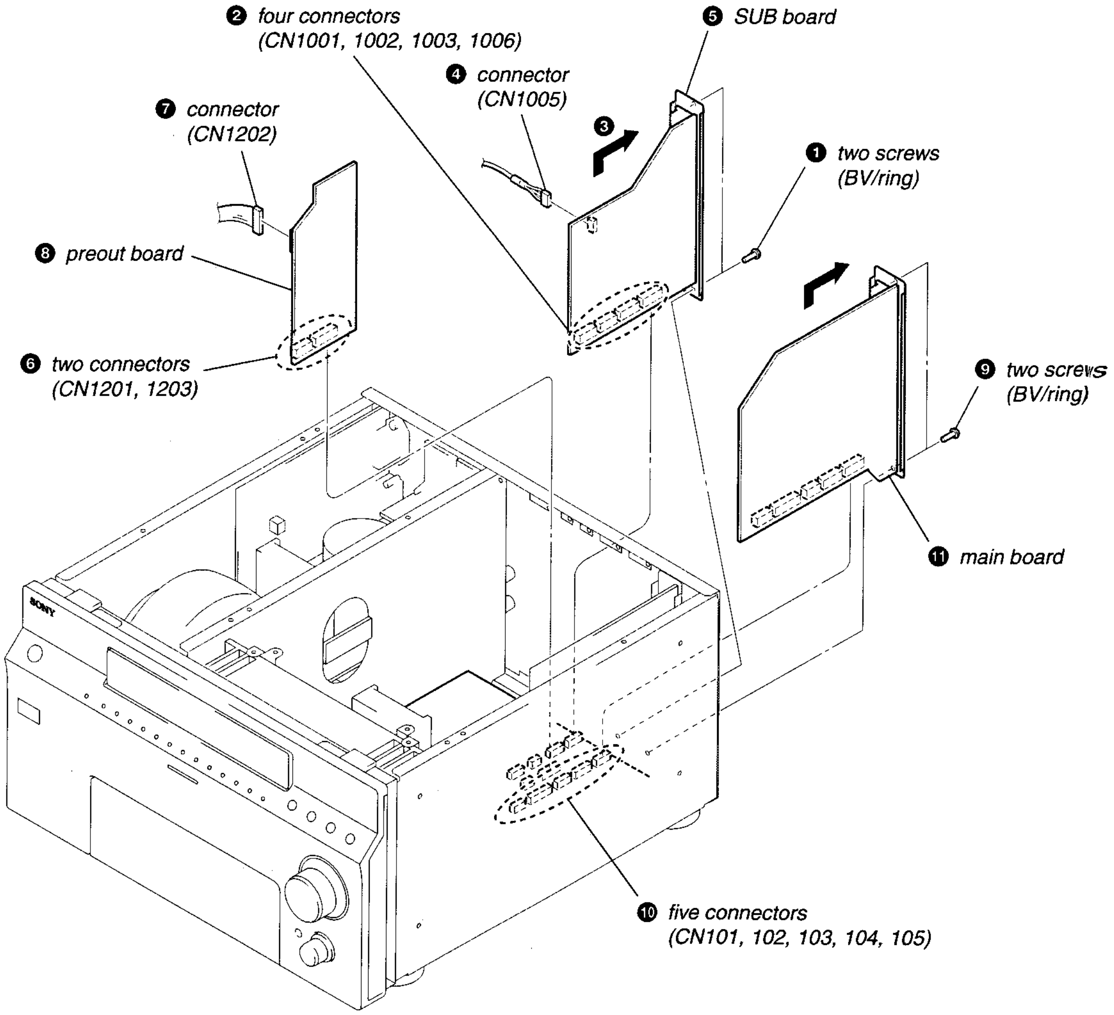
3-5. COMPONENT BOARD SECTION


❶ two screws
(BV/ring)
❹
❺ connector
(CN1306)
❷ four screws
(BV/ring)
❻ component board section
❸ three connectors
(CN819, 820, 821)

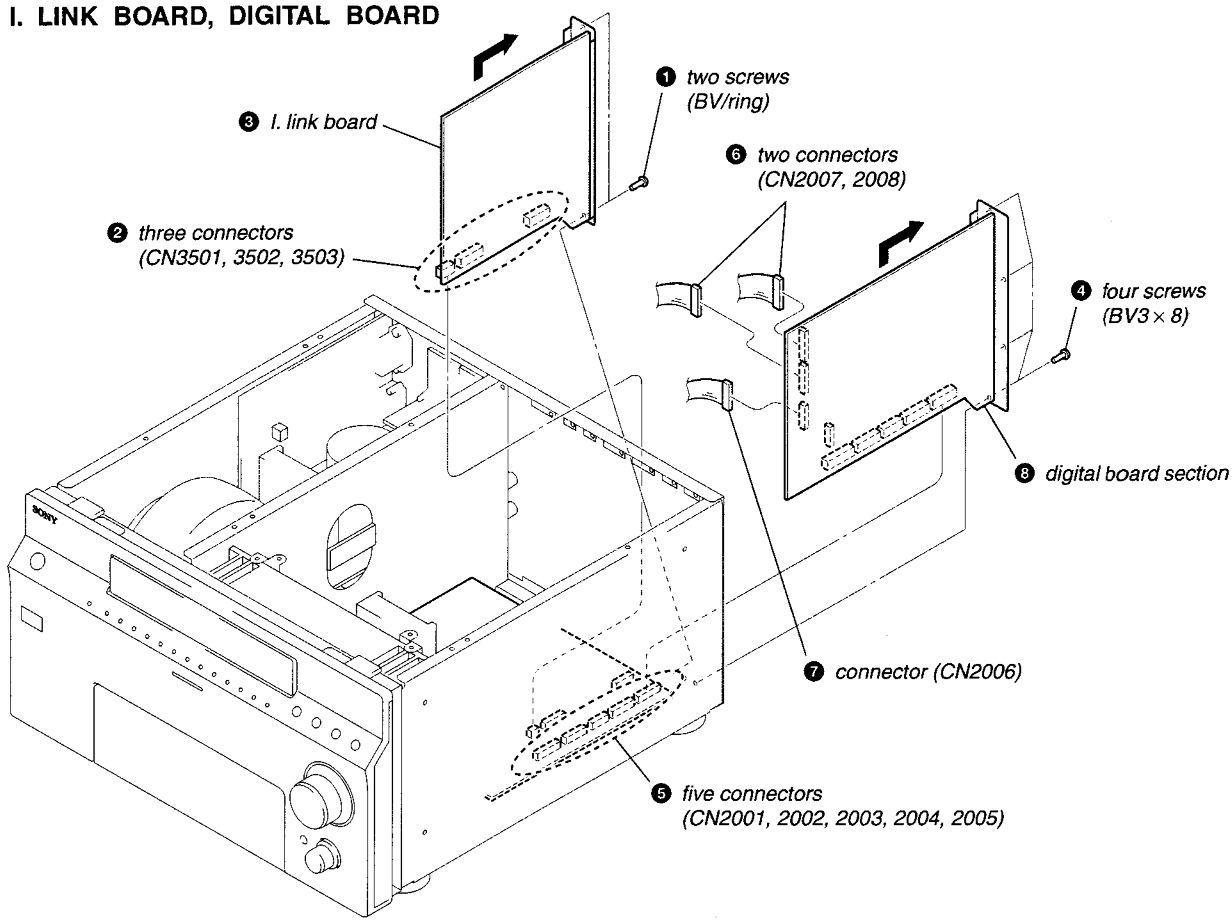
3-6. S-VIDEO/VIDEO BOARD BLOCK


❹ S-video/video board block
❸ two connectors (CN303, 403)
❶ four screws (BV/ring)
❷ four connectors (CN815, 816, 817, 818)
SONY

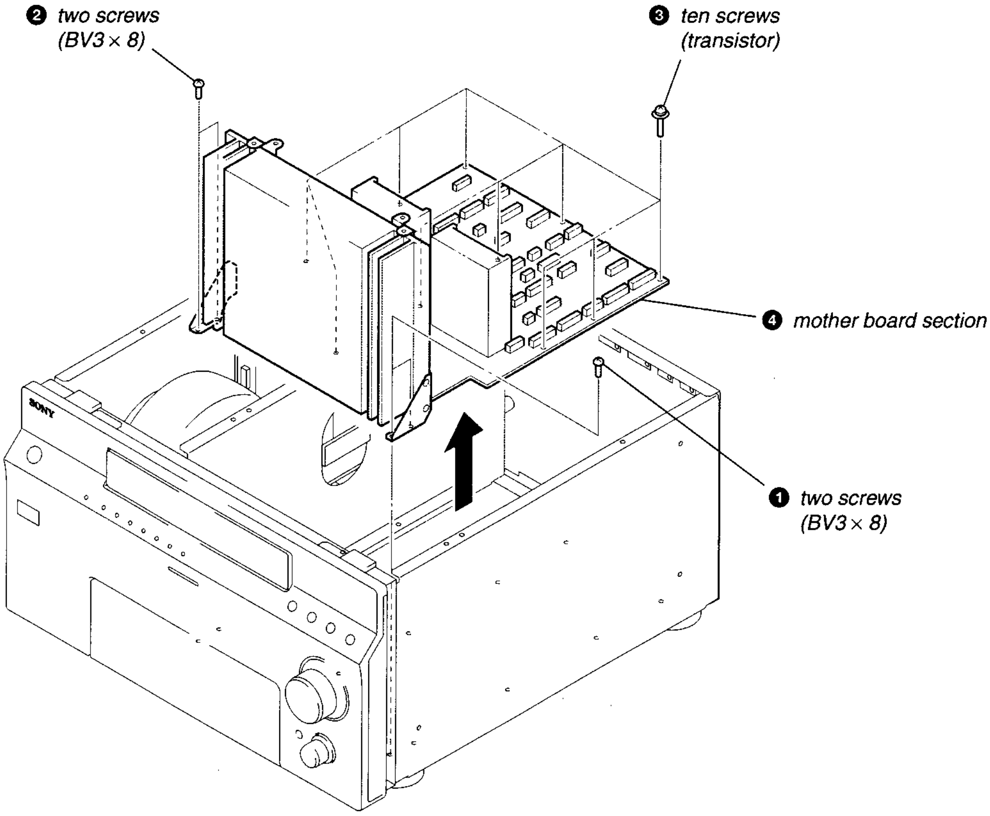
3-7. SUB BOARD, PREOUT BOARD, MAIN BOARD


❷ four connectors (CN1001, 1002, 1003, 1006)
❺ SUB board
❹ connector (CN1005)
❼ connector (CN1202)
❸
❶ two screws (BV/ring)
❽ preout board
❻ two connectors (CN1201, 1203)
❾ two screws (BV/ring)
⓫ main board
❿ five connectors (CN101, 102, 103, 104, 105)
SONY

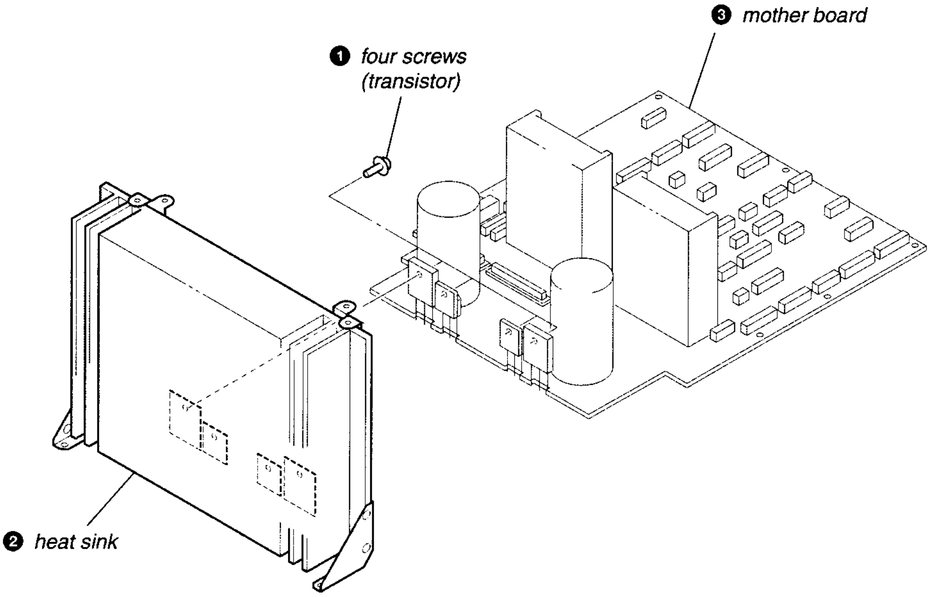
3-8. I. LINK BOARD, DIGITAL BOARD


❶ two screws (BV/ring)
❷ three connectors (CN3501, 3502, 3503)
❸ I. link board
❹ four screws (BV3 × 8)
❺ five connectors (CN2001, 2002, 2003, 2004, 2005)
❻ two connectors (CN2007, 2008)
❼ connector (CN2006)
❽ digital board section

3-9. MOTHER BOARD SECTION


❶ two screws (BV3 × 8)
❷ two screws (BV3 × 8)
❸ ten screws (transistor)
❹ mother board section

3-10. MOTHER BOARD


❸ mother board
❶ four screws (transistor)
❷ heat sink

SECTION 4
TEST MODE

TUNER FACTORY PRESET MODE

All preset contents are reset to the default setting.

Procedure:

1. While pressing the SURR BACK DECODING and SLEEP buttons, press the I/⏻ button to turn on the main power.
2. The message "FACTORY PRESET" appears and the present contents are reset to the default values.

MEMORY CLEARING MODE

All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While pressing the INPUT MODE and ENTER buttons, press the I/⏻ button to turn on the main power.
2. The message "MEMORY CLEARING..." appears and the memories are reset to the default values.
3. When done, the message "MEMORY CLEARED !" appears.

SWAP MODE

Procedure:

1. While pressing the 2CH and ENTER buttons, press the I/⏻ button to turn on the main power.
2. The message "SWAP MODE !" appears.
3. Press the DISPLAY button.
4. The message "–35.5dB" appears. (Volume level is "MID")
5. Press the DISPLAY button once again.
6. The message "+22.0dB" appears. (Volume level is "MAX")
7. Press the DISPLAY button once again.
8. The message "–∞dB" appears. (Volume level is "MIN")

FLUORESCENT INDICATOR TUBE PATTERN CHECK MODE

All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

1. While pressing the DISPLAY and ENTER buttons, press the I/⏻ button to turn on the main power.
2. All segments and all LEDs turn on.

SOUND FIELD INITIALIZE MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While pressing the MUSIC button, press the I/⏻ button to turn on the main power.
2. The message "S. F. Initialize" appears and initialization is performed.

COMMAND MODE CHANGE MODE

The command mode of the remote-commander which this set receives can be changed.

Procedure:

1. While pressing the INPUT MODE button, press the I/⏻ button to turn on the main power.
2. Either the message "COMMAND MODE [AV1]" or "COMMAND MODE [AV2]" appears. Select the desired mode.

SF LOCK ON/OFF CHANGE MODE

Procedure:

1. While pressing the MUSIC and ENTER buttons, press the I/⏻ button to turn on the main power.
2. Either the message "SF LOCK [OFF]" or "SF LOCK [ON]" appears.

OPERATION CHECK OF i. LINK TERMINAL

Connect the set to a unit equipped with the i. LINK terminal to check if the communication can be made correctly. By this operation check, a loose connection of the connector or a disconnection of the i. LINK cable can be confirmed.

Procedure:

1. Press the I/⏻ button to turn on the power, and rotate the INPUT SELECTOR knob to set the function to the "i. LINK" so that the "No LINC" is displayed.
2. Turn on the power of the unit equipped with the i. LINK terminal.
3. Connect the set to the unit equipped with the i. LINK terminal using the i. LINK cable.
   At this time, check that "i. LINK CONNECTING" is displayed on the set.
4. After the display of "i. LINK CONNECTING", check that the equipment information is displayed.
5. Moving the i. LINK cable with the i. LINK connection maintained, check that the "i. LINK CONNECTING" is not displayed.

If nothing is displayed in step 3 and 4, or if "i. LINK CONNECTING" is displayed continuously, the i. LINK cable will be disconnected or the connector connection will be loose.
If "i. LINK CONNECTING" is displayed in step 5 though the cable is not removed, the i. LINK cable will be disconnected or the connector connection will be loose.

SPECIAL MENU MODE

Procedure:

1. Press the I/⏻ button to turn on the main power, then while pressing the ENTER button, press the MUSIC, DIRECT, MOVIE button in order.
2. The message "MENU SPECIALIZED !" appears.
3. Each time the MENU dial is turned clockwise, the item is switched in order as follows.
4. To release from this mode, while pressing the ENTER button, press the MUSIC, DIRECT, MOVIE button in order again.
5. The message "MENU SPECIALIZED OFF" appears.

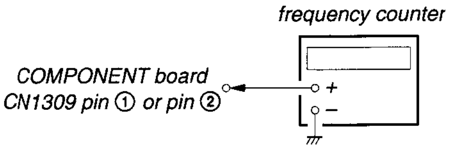
Items	Display	Remark
Version display	SPECIAL A9ES ### v*.** XXXX	###: distination,*.**: main microprocessor software version XXXX: Sum value of flash memory in the main microprocessor
Distinatin change	SPECIAL MODEL [AE9S ****]XX	****: destination, XX: at or fx (switching with -/+ dial)
FL display fonts test	SPECIAL FL FONT 0x** = [X]	Not used for the servicing
FL display test	ALL ON	Each time DISPLAY button to change as follows. all on → test pattern 1 → test pattern 2 → all off → all on
Audio swap	SPECIAL SWAP [XXXXXXXXXXX]	Switching with -/+ dial
DSP reset	SPECIAL DSP RESET [XXX]	XXX: ON or OFF (switching with -/+ dial)
DSP 1 IRAM	DSP 1 IRAM I [*****]= XXXX	Not used for the servicing
DSP 1 ARAM	DSP 1 ARAM D [*****]= XXXXXXXX	Not used for the servicing
DSP 2 IRAM	DSP 2 IRAM I [*****]= XXXX	Not used for the servicing
DSP 2 ARAM	DSP 2 ARAM D [*****]= XXXXXXXX	Not used for the servicing
DSP 2 ARAM	DSP 2 ARAM D [*****]= XXXXXXXX	Not used for the servicing
1st bass gain	SPECIAL 1st BASS GAIN X.XdB	Not used for the servicing
1st bass frequency	SPECIAL 1st BASS FREQ XXXHz	Not used for the servicing
2nd bass gain	SPECIAL 2nd BASS GAIN X.XdB	Not used for the servicing
2nd bass frequency	SPECIAL 2nd BASS FREQ XXHz	Not used for the servicing
Bass select	SPECIAL BASS SELECT [1st or 2nd]	Not used for the servicing
Bass management	SPECIAL BASS MAN. [****] XX	Not used for the servicing
DSP boot error	SPECIAL DSP BOOT ERROR:XXX	Not used for the servicing
DSP write 1 error	SPECIAL DSP WRT1 ERROR:XXX	Not used for the servicing
DSP write 2 error	SPECIAL DSP WRT2 ERROR:XXX	Not used for the servicing
DSP write 3 error	SPECIAL DSP WRT3 ERROR:XXX	Not used for the servicing
DSP read 1 error	SPECIAL DSP RAD1 ERROR:XXX	Not used for the servicing
DSP read 2 error	SPECIAL DSP RAD2 ERROR:XXX	Not used for the servicing
DSP read 3 error	SPECIAL DSP RAD3 ERROR:XXX	Not used for the servicing
DSP HALT	SPECIAL DSP HALT [XXX]	XXX: ON or OFF (switching with -/+ dial)

Items	Display	Remark
DSP Version display	SPECIAL DSP Ver 1:vXXX,2:vXXX	XXX: DSP version
Volume value display (FL/FR)	SPECIAL FL **** FR XXXX	****: Front L-ch volume value, XXXX: Front R-ch volume value
Volume value display (SL/SR)	SPECIAL SL **** SR XXXX	****: Surround L-ch volume value, XXXX: Surround R-ch volume value
Volume value display (CT/SW)	SPECIAL CT **** SW XXXX	****: Center volume value, XXXX: Volume value display
Volume value display (SBL/SBR)	SPECIAL SBL **** SBR XXXX	****: Surround back L-ch volume value, XXXX: Surround back R-ch volume value
EEPROM debug	SPECIAL EEPROM [****] XX	Not used for the servicing
Super reset	SPECIAL SUPER RESET [XXX]	XXX: YES or NO (switching with -/+ dial) When SUPER RESET [YES] is displayed, press the ENTER button will clear all EEPROM data
FL display duty change	SPECIAL DARK OUT DUTY [XXX%]	XXX: Duty value of FL display (0% to 100%) (switching with -/+ dial)
SDRAM check	SPECIAL SDRAM CHECK [XXXXX]	Check the operation of LIP SYNC XXXXX: PASS (OK) or ERROR (NG)
Error count display	SPECIAL SCOM ERROR COUNT XXX	Not used for the servicing
Version display	SPECIAL Sub Micom Ver. X.XX	XXX: sub microprocessor software version
958 hats off	SPECIAL 958 HATS OFF [SPDIF or PCM]	Not used for the servicing
I.link test mode	SPECIAL i.LINK TEST MODE IN?	Not used for the servicing
YUV Y DRIVE	SPECIAL YUV Y DRIVE [XX]	Not used for the servicing
YUV U DRIVE	SPECIAL YUV U DRIVE [XX]	Not used for the servicing
YUV V DRIVE	SPECIAL YUV V DRIVE [XX]	Not used for the servicing
Analog direct	SPECIAL ANALOG DIRECT [2Fs or 4FS]	Not used for the servicing

SECTION 5
ELECTRICAL ADJUSTMENTS

OSD ADJUSTMENT

Connection

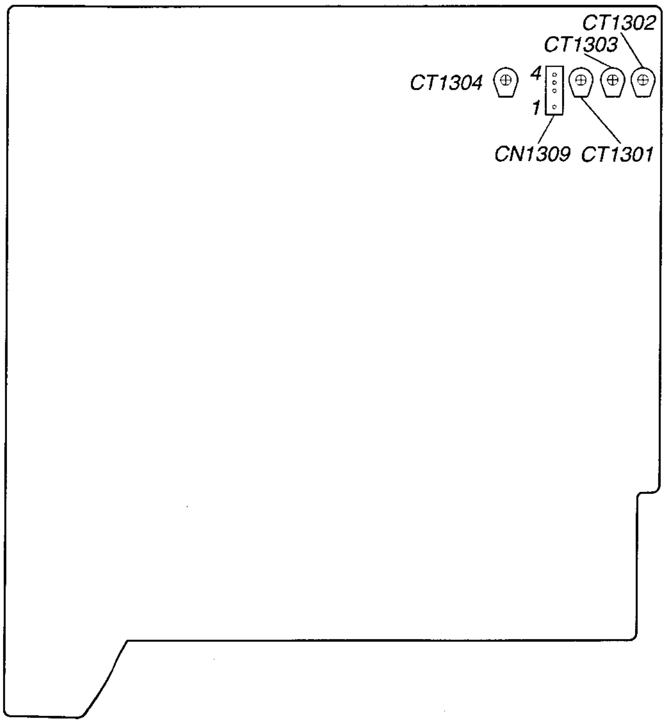


1. Connect a frequency counter to the CN1309 pin ① on the COMPONENT board.
2. Press the I/⏻ button to turn on the main power.
3. Perform the MEMORY CREARING MODE. (See page 17)
4. Press the ON SCREEN button on the remote commander (RM-LJ312) to display "ON SCREEN [ON]".
5. Turn the MAIN MENU dial to display "<< CUSTOMIZE >>".
6. Turn the MENU dial to display "COLOR SYSTEM".
7. Turn the –/+ dial to select PAL.
8. Adjust the CT1304 so that the frequency counter reading is 7.20 MHz.
9. Connect a frequency counter to the CN1309 pin ② on the COMPONENT board.
10. Adjust the CT1302 so that the frequency counter reading is 4.433618 MHz ± 50 Hz.
11. Turn the –/+ dial to select NTSC.
12. Adjust the CT1303 (AEP and UK models) or CT1301 (Taiwan and Korean models) so that the frequency counter reading is 3.579545 MHz ± 50 Hz.

Note: The steps 5 to 7, 10 and 11 should be performed to AEP and UK models.

Adjustment and Connection Location:

– COMPONENT BOARD (Component Side) –



UP CONVERT SIGNAL LEVEL ADJUSTMENT

Enter the test mode

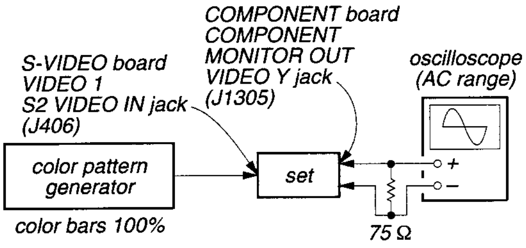
1. While pressing the INPUT MODE and DISPLAY buttons, press the I/⏻ button to turn on the main power.
2. It enters the test mode, and display as below figure.

Display

HUE	CONTRAST	COLOR
[7]	[7]	[7]

1. Y LEVEL ADJUSTMENT

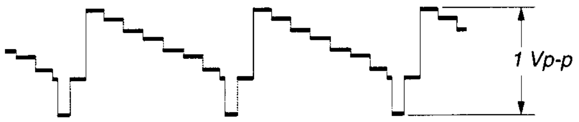
Setting:


COMPONENT board
COMPONENT
MONITOR OUT
VIDEO Y jack
(J1305)
S-VIDEO board
VIDEO 1
S2 VIDEO IN jack
(J406)
oscilloscope
(AC range)
color pattern generator
set
+
–
color bars 100%
75 Ω

Procedure:

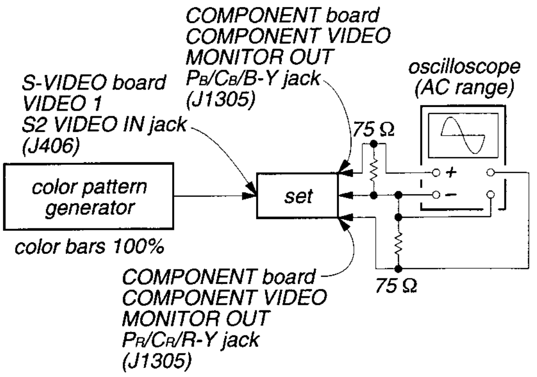
1. Connect a color pattern generator to the VIDEO 1 S2 VIDEO IN jack (J406) on the S-VIDEO board, and connect an oscilloscope to the COMPONENT VIDEO MONITOR OUT Y jack (J1305) on the COMPONENT board. (75Ω terminated)
2. Enter the test mode.
3. Input color bars signal from the color pattern generator.
4. Adjust the MENU dial so that the Vp-p value of waveform becomes 1 Vp-p.

Y waveform:



2. COLOR LEVEL ADJUSTMENT

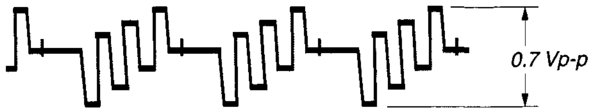
Setting:


COMPONENT board
COMPONENT VIDEO
MONITOR OUT
PB/CB/B-Y jack
(J1305)
S-VIDEO board
VIDEO 1
S2 VIDEO IN jack
(J406)
oscilloscope
(AC range)
75 Ω
color pattern generator
set
+
–
color bars 100%
COMPONENT board
COMPONENT VIDEO
MONITOR OUT
PR/CR/R-Y jack
(J1305)
75 Ω

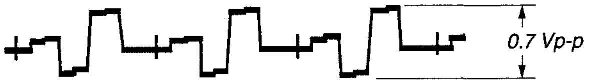
Procedure:

1. Connect a color pattern generator to the VIDEO 1 S2 VIDEO IN jack (J406) on the S-VIDEO board, and connect an oscilloscope to the COMPONENT VIDEO PB/CB/B-Y jack and COMPONENT VIDEO PR/CR/R-Y jack (J1305) on the COMPONENT board. (75Ω terminated)
2. Enter the test mode.
3. Input color bars signal from the color pattern generator.
4. Display two waveforms of CB and CR simultaneously.
5. Adjust the –/+ dial so that the Vp-p value of waveforms of CB and CR both may be most set to 0.7V closely.

CB waveform:

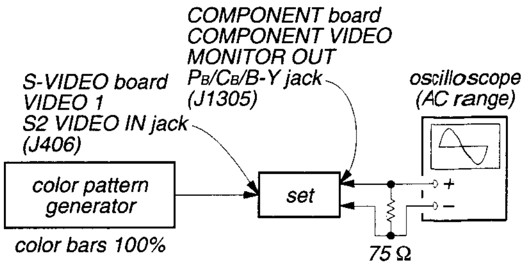


CR waveform:



3. HUE LEVEL ADJUSTMENT

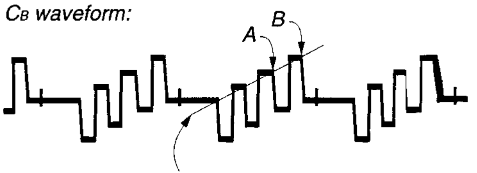
Setting:


COMPONENT board
COMPONENT VIDEO
MONITOR OUT
PB/CB/B-Y jack
(J1305)
S-VIDEO board
VIDEO 1
S2 VIDEO IN jack
(J406)
oscilloscope
(AC range)
color pattern generator
set
+
–
color bars 100%
75 Ω

Procedure:

1. Connect a color pattern generator to the VIDEO 1 S2 VIDEO IN jack (J406) on the S-VIDEO board, and connect an oscilloscope to the COMPONENT VIDEO PB/CB/B-Y jack on the COMPONENT board. (75Ω terminated)
2. Enter the test mode.
3. Input color bars signal from the color pattern generator.
4. Adjust the MAIN MENU dial so that the waveform as bellow.

CB waveform:



Adjust so that the height of A and B may be located in a line on this line.

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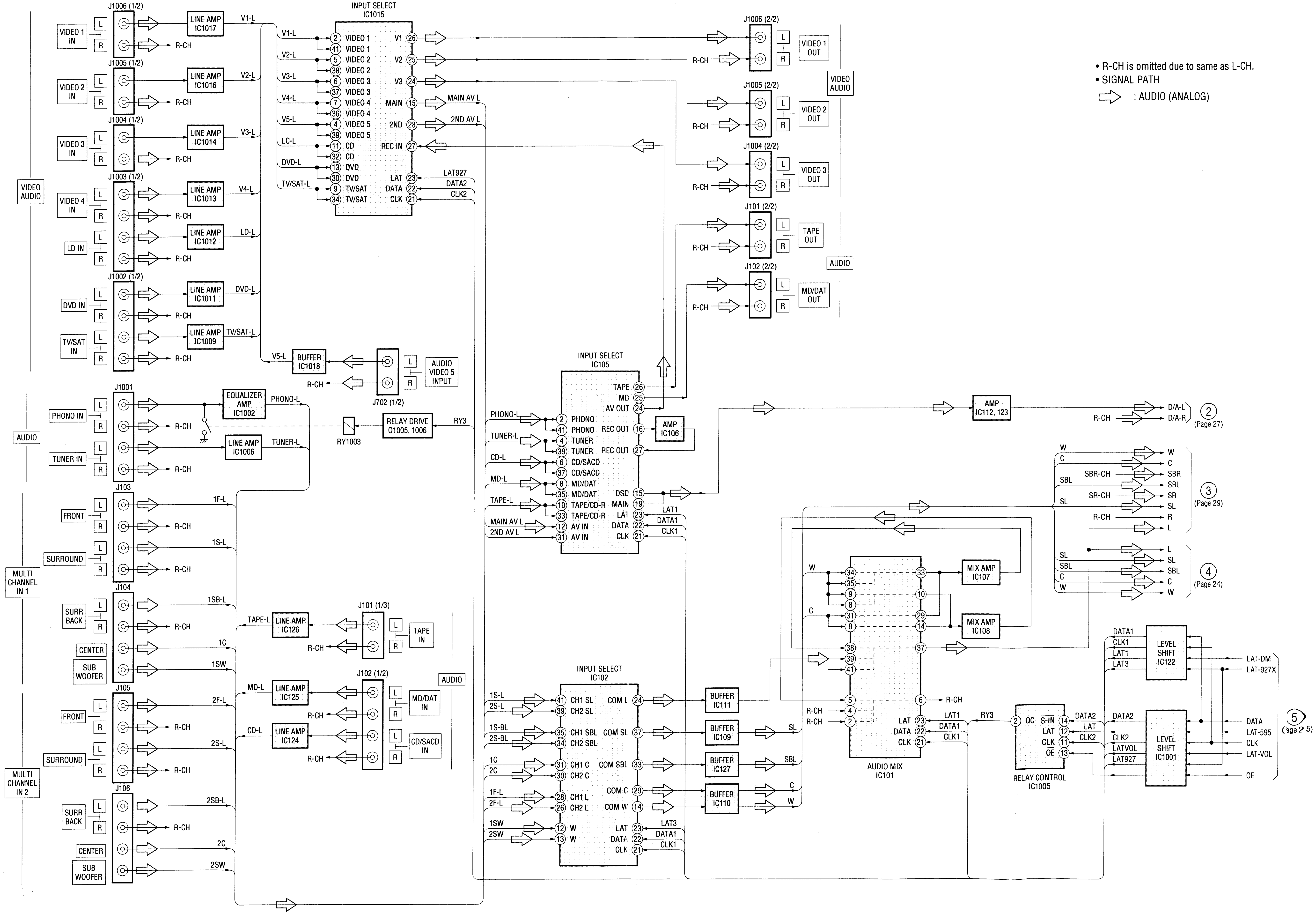
SECTION 6
DIAGRAMS

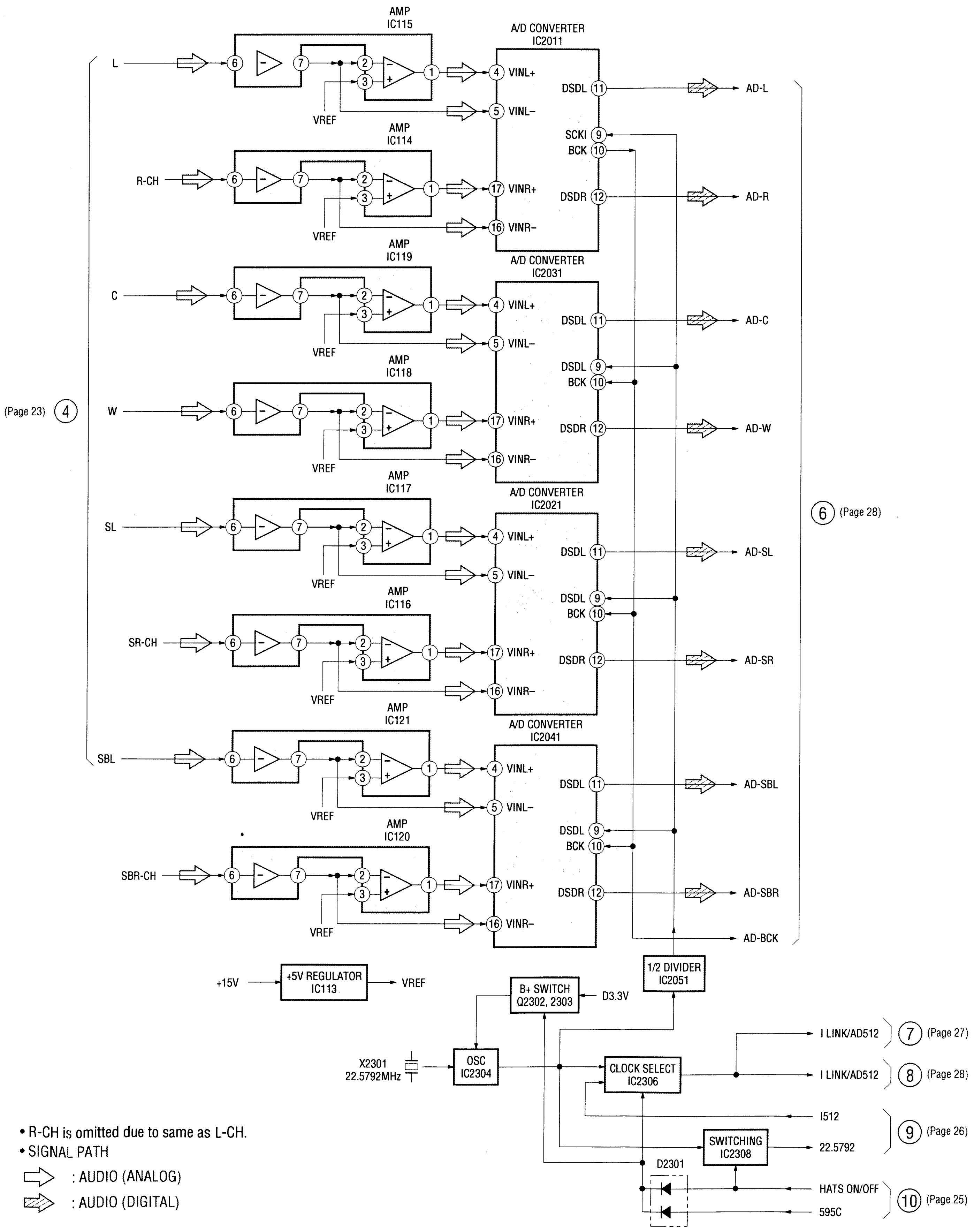
6-1. BLOCK DIAGRAM – AUDIO INPUT Section –


J1006 (1/2)
VIDEO 1 IN
LINE AMP IC1017
V1-L
J1005 (1/2)
VIDEO 2 IN
LINE AMP IC1016
V2-L
J1004 (1/2)
VIDEO 3 IN
LINE AMP IC1014
V3-L
J1003 (1/2)
VIDEO 4 IN
LINE AMP IC1013
V4-L
LD IN
LINE AMP IC1012
LD-L
J1002 (1/2)
DVD IN
LINE AMP IC1011
DVD-L
TV/SAT IN
LINE AMP IC1009
TV/SAT-L
VIDEO AUDIO
R-CH
L
R
V5-L
BUFFER IC1018
J702 (1/2)
AUDIO VIDEO 5 INPUT
INPUT SELECT IC1015
VIDEO 1
VIDEO 2
VIDEO 3
VIDEO 4
VIDEO 5
CD
DVD
TV/SAT
V1
V2
V3
MAIN
2ND
REC IN
LAT
DATA
CLK
LC-L
MAIN AV L
2ND AV L
LAT927
DATA2
CLK2
J1006 (2/2)
VIDEO 1 OUT
J1005 (2/2)
VIDEO 2 OUT
J1004 (2/2)
VIDEO 3 OUT
VIDEO AUDIO
J101 (2/2)
TAPE OUT
J102 (2/2)
MD/DAT OUT
AUDIO
J1001
PHONO IN
TUNER IN
AUDIO
EQUALIZER AMP IC1002
PHONO-L
LINE AMP IC1006
TUNER-L
RY1003
RELAY DRIVE Q1005, 1006
RY3
J103
FRONT
SURROUND
1F-L
1S-L
J104
SURR BACK
CENTER
SUB WOOFER
1SB-L
1C
1SW
MULTI CHANNEL IN 1
J105
FRONT
SURROUND
2F-L
2S-L
J106
SURR BACK
CENTER
SUB WOOFER
2SB-L
2C
2SW
MULTI CHANNEL IN 2
TAPE-L
LINE AMP IC126
J101 (1/3)
TAPE IN
MD-L
LINE AMP IC125
J102 (1/2)
MD/DAT IN
CD-L
LINE AMP IC124
CD/SACD IN
AUDIO
INPUT SELECT IC105
PHONO
TUNER
CD/SACD
MD/DAT
TAPE/CD-R
AV IN
TAPE
MD
AV OUT
REC OUT
DSD
MAIN
LAT
DATA
CLK
AMP IC106
LAT1
DATA1
CLK1
AMP IC112, 123
D/A-L
D/A-R
② (Page 27)
W
C
SBR
SBL
SR
SL
R
L
SBR-CH
SR-CH
③ (Page 29)
④ (Page 24)
MIX AMP IC107
MIX AMP IC108
AUDIO MIX IC101
INPUT SELECT IC102
CH1 SL
CH2 SL
CH1 SBL
CH2 SBL
CH1 C
CH2 C
CH1 L
CH2 L
W
COM L
COM SL
COM SBL
COM C
COM W
BUFFER IC111
BUFFER IC109
BUFFER IC127
BUFFER IC110
1S-L
2S-L
1S-BL
2S-BL
1C
2C
1F-L
2F-L
1SW
2SW
LAT3
RY3
RELAY CONTROL IC1005
QC
S-IN
OE
LEVEL SHIFT IC122
LEVEL SHIFT IC1001
DATA1
CLK1
LAT1
LAT3
DATA2
CLK2
LATVOL
LAT927
LAT-DM
LAT-927X
DATA
LAT-595
CLK
LAT-VOL
OE
⑤ (Page 25)

- R-CH is omitted due to same as L-CH.
- SIGNAL PATH

⇨ : AUDIO (ANALOG)

6-2. BLOCK DIAGRAM – A/D CONVERTER Section –

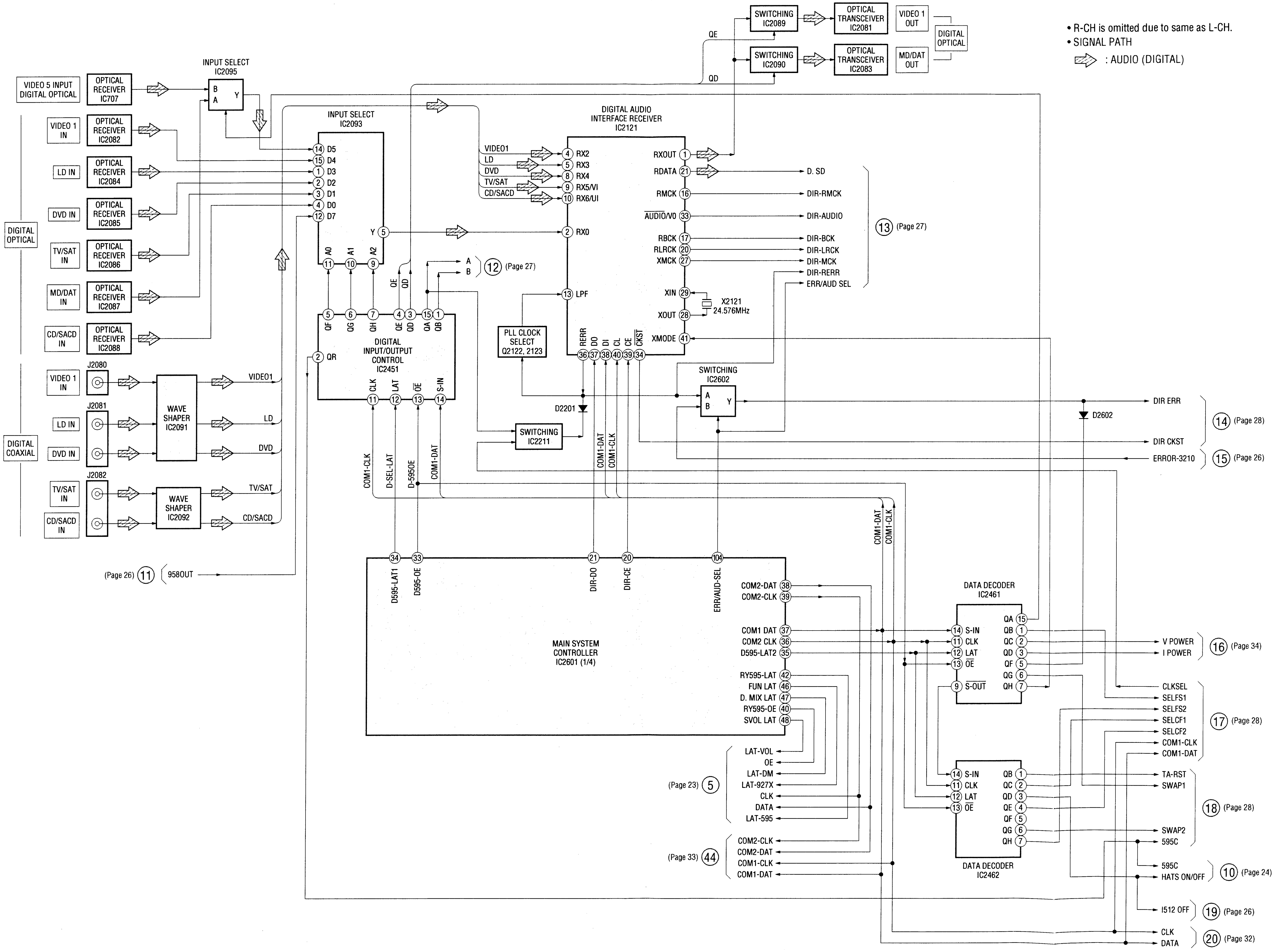

(Page 23) ④
L
R-CH
C
W
SL
SR-CH
SBL
SBR-CH
AMP IC115
AMP IC114
AMP IC119
AMP IC118
AMP IC117
AMP IC116
AMP IC121
AMP IC120
VREF
A/D CONVERTER IC2011
A/D CONVERTER IC2031
A/D CONVERTER IC2021
A/D CONVERTER IC2041
VINL+
VINL–
VINR+
VINR–
DSDL
DSDR
SCKI
BCK
AD-L
AD-R
AD-C
AD-W
AD-SL
AD-SR
AD-SBL
AD-SBR
AD-BCK
⑥ (Page 28)
+15V
+5V REGULATOR IC113
VREF
B+ SWITCH Q2302, 2303
D3.3V
1/2 DIVIDER IC2051
X2301 22.5792MHz
OSC IC2304
CLOCK SELECT IC2306
SWITCHING IC2308
D2301
I LINK/AD512
⑦ (Page 27)
I LINK/AD512
⑧ (Page 28)
I512
22.5792
⑨ (Page 26)
HATS ON/OFF
595C
⑩ (Page 25)

- R-CH is omitted due to same as L-CH.
- SIGNAL PATH

⇨ : AUDIO (ANALOG)

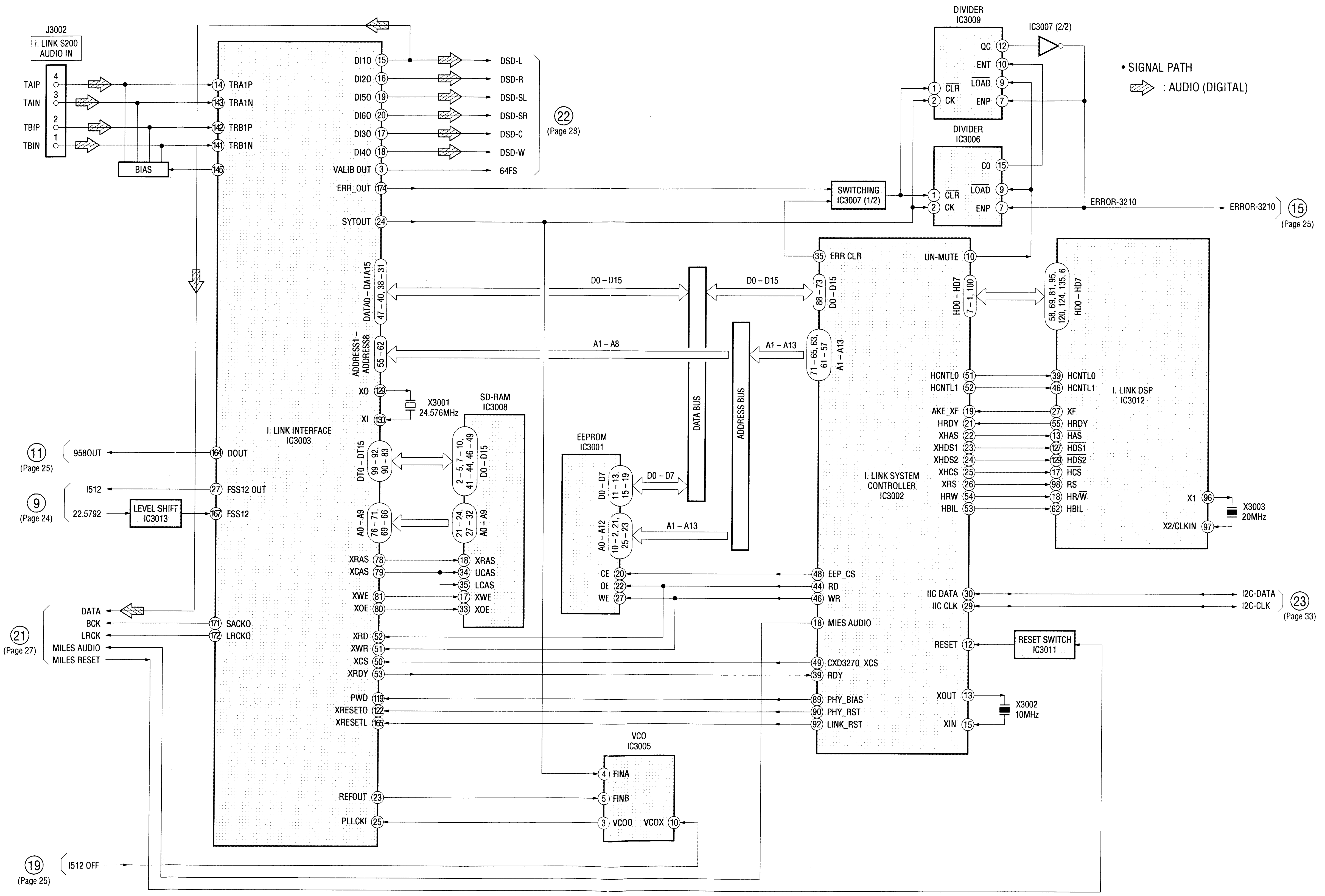
▨ : AUDIO (DIGITAL)

6-3. BLOCK DIAGRAM – DIGITAL INPUT Section –

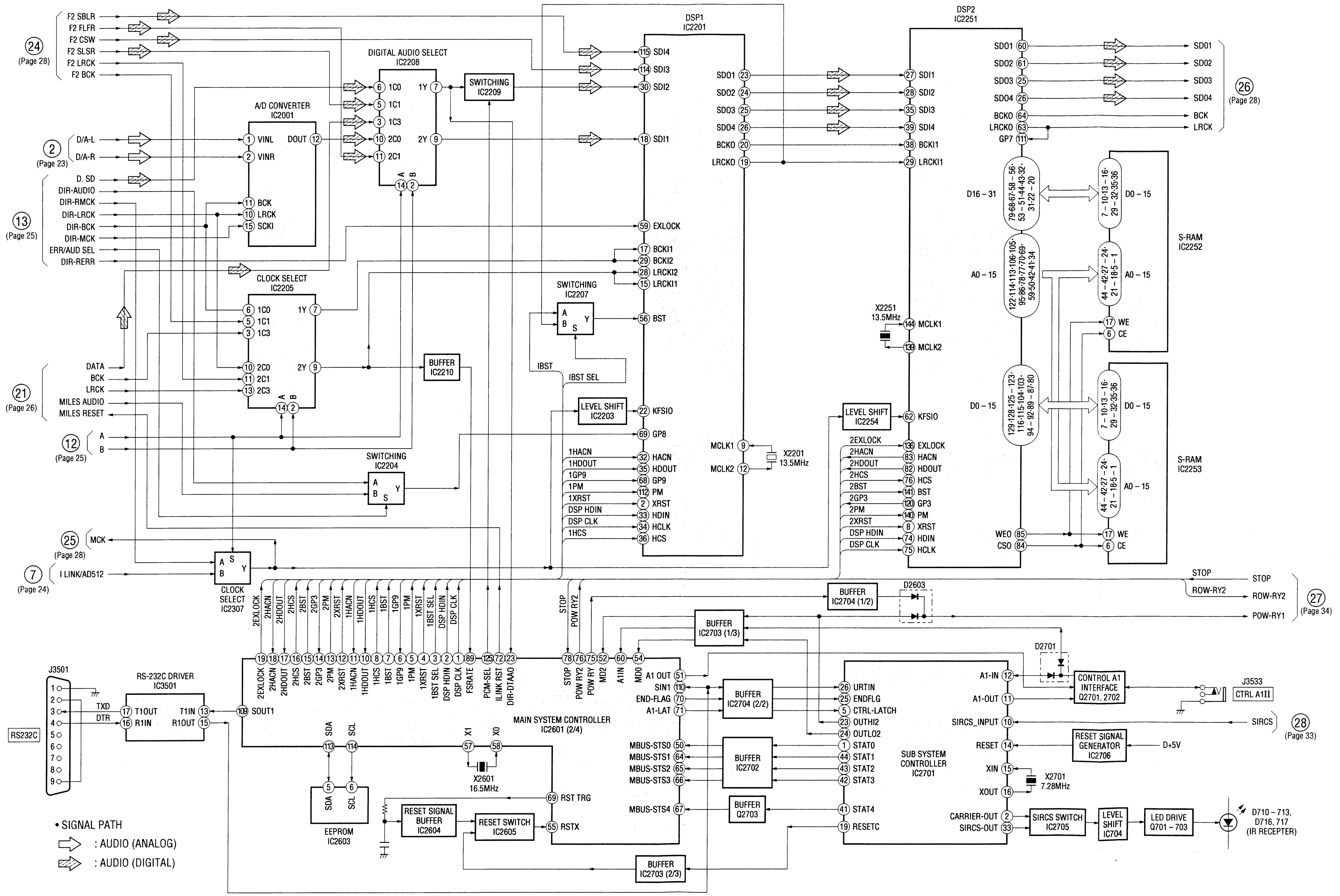


• R-CH is omitted due to same as L-CH.
• SIGNAL PATH
: AUDIO (DIGITAL)
VIDEO 5 INPUT DIGITAL OPTICAL
OPTICAL RECEIVER IC707
INPUT SELECT IC2095
B
A
Y
DIGITAL OPTICAL
VIDEO 1 IN
OPTICAL RECEIVER IC2082
LD IN
OPTICAL RECEIVER IC2084
DVD IN
OPTICAL RECEIVER IC2085
TV/SAT IN
OPTICAL RECEIVER IC2086
MD/DAT IN
OPTICAL RECEIVER IC2087
CD/SACD IN
OPTICAL RECEIVER IC2088
DIGITAL COAXIAL
J2080
VIDEO 1 IN
J2081
LD IN
DVD IN
WAVE SHAPER IC2091
J2082
TV/SAT IN
CD/SACD IN
WAVE SHAPER IC2092
VIDEO1
LD
DVD
TV/SAT
CD/SACD
(Page 26) (11) 958OUT
INPUT SELECT IC2093
(14) D5
(15) D4
(1) D3
(2) D2
(3) D1
(4) D0
(12) D7
Y (5)
A0 (11)
A1 (10)
A2 (9)
QE
QD
A
B
(12) (Page 27)
DIGITAL INPUT/OUTPUT CONTROL IC2451
(5) QF
(6) QG
(7) QH
(4) QE
(3) QD
(15) QA
(1) QB
(2) QR
CLK (11)
LAT (12)
OE (13)
S-IN (14)
COM1-CLK
D-SEL-LAT
D-5950E
COM1-DAT
SWITCHING IC2089
SWITCHING IC2090
OPTICAL TRANSCEIVER IC2081
OPTICAL TRANSCEIVER IC2083
VIDEO 1 OUT
MD/DAT OUT
DIGITAL OPTICAL
QE
QD
DIGITAL AUDIO INTERFACE RECEIVER IC2121
VIDEO1
LD
DVD
TV/SAT
CD/SACD
(4) RX2
(5) RX3
(8) RX4
(9) RX5/VI
(10) RX6/UI
(2) RX0
(13) LPF
RXOUT (1)
RDATA (21)
RMCK (16)
AUDIO/VO (33)
RBCK (17)
RLRCK (20)
XMCK (27)
XIN (29)
XOUT (28)
XMODE (41)
RERR (36)
DO (37)
DI (38)
CL (40)
CE (39)
CKST (34)
X2121 24.576MHz
D. SD
DIR-RMCK
DIR-AUDIO
DIR-BCK
DIR-LRCK
DIR-MCK
DIR-RERR
ERR/AUD SEL
(13) (Page 27)
PLL CLOCK SELECT Q2122, 2123
D2201
SWITCHING IC2211
COM1-DAT
COM1-CLK
SWITCHING IC2602
A
B
Y
D2602
DIR ERR
DIR CKST
(14) (Page 28)
ERROR-3210
(15) (Page 26)
COM1-DAT
COM1-CLK
MAIN SYSTEM CONTROLLER IC2601 (1/4)
(34) D595-LAT1
(33) D595-OE
(21) DIR-DO
(20) DIR-CE
(104) ERR/AUD-SEL
COM2-DAT (38)
COM2-CLK (39)
COM1 DAT (37)
COM2 CLK (36)
D595-LAT2 (35)
RY595-LAT (42)
FUN LAT (46)
D. MIX LAT (47)
RY595-OE (40)
SVOL LAT (48)
LAT-VOL
OE
LAT-DM
LAT-927X
CLK
DATA
LAT-595
(Page 23) (5)
COM2-CLK
COM2-DAT
COM1-CLK
COM1-DAT
(Page 33) (44)
DATA DECODER IC2461
(14) S-IN
(11) CLK
(12) LAT
(13) OE
(9) S-OUT
QA (15)
QB (1)
QC (2)
QD (3)
QF (5)
QG (6)
QH (7)
V POWER
I POWER
(16) (Page 34)
CLKSEL
SELFS1
SELFS2
SELCF1
SELCF2
COM1-CLK
COM1-DAT
(17) (Page 28)
DATA DECODER IC2462
(14) S-IN
(11) CLK
(12) LAT
(13) OE
QB (1)
QC (2)
QD (3)
QE (4)
QF (5)
QG (6)
QH (7)
TA-RST
SWAP1
(18) (Page 28)
SWAP2
595C
595C
HATS ON/OFF
(10) (Page 24)
I512 OFF
(19) (Page 26)
CLK
DATA
(20) (Page 32)

6-4. BLOCK DIAGRAM – I. LINK Section –

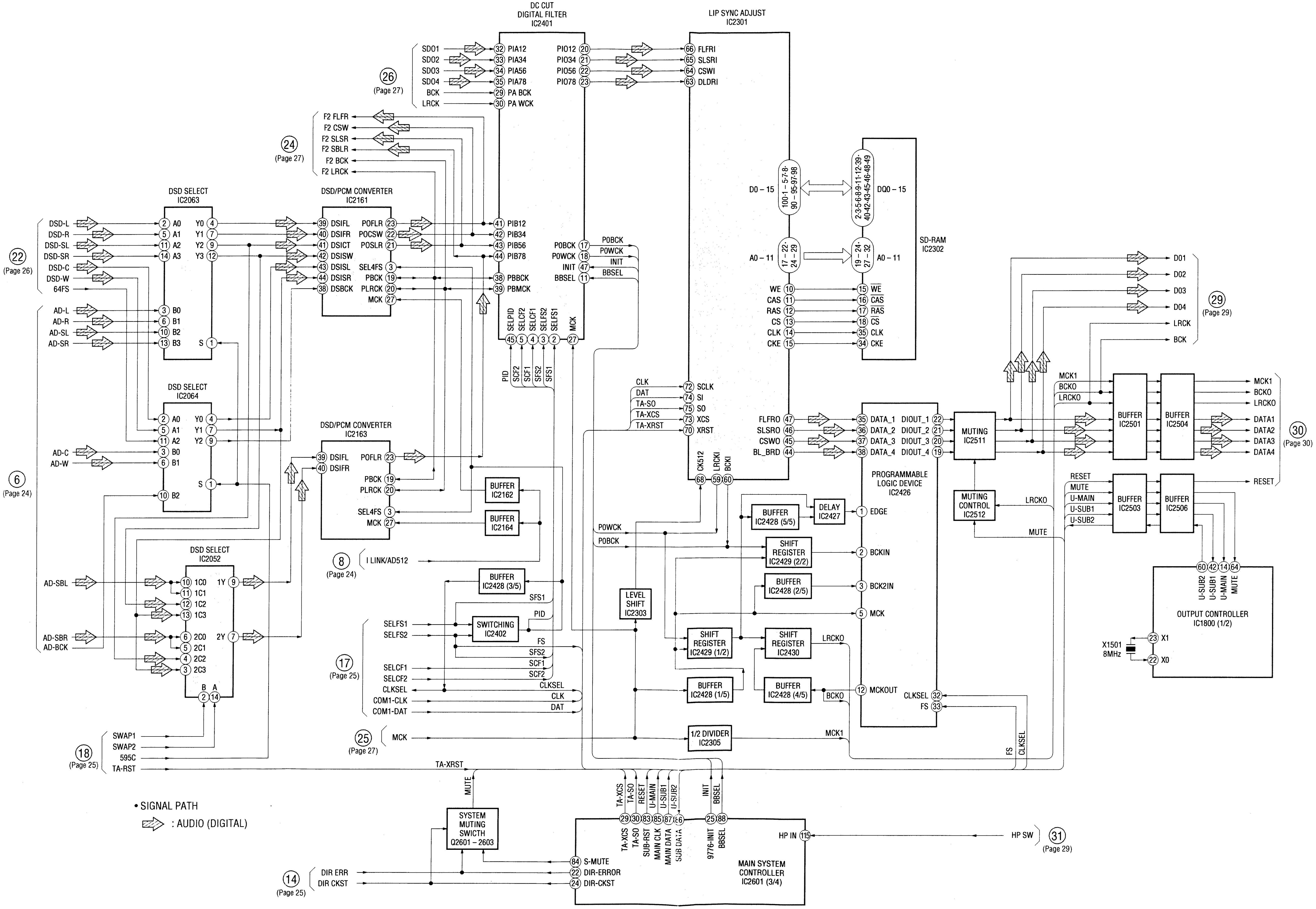

J3002
i. LINK S200 AUDIO IN
TAIP
TAIN
TBIP
TBIN
4
3
2
1
BIAS
TRA1P
TRA1N
TRB1P
TRB1N
I. LINK INTERFACE
IC3003
DI10
DI20
DI50
DI60
DI30
DI40
VALIB OUT
ERR_OUT
SYTOUT
DSD-L
DSD-R
DSD-SL
DSD-SR
DSD-C
DSD-W
64FS
(22)
(Page 28)
DATA0 – DATA15
47 – 40, 38 – 31
ADDRESS1 – ADDRESS8
55 – 62
XO
XI
X3001
24.576MHz
SD-RAM
IC3008
DT0 – DT15
99 – 92, 90 – 83
2 – 5, 7 – 10, 41 – 44, 46 – 49
D0 – D15
A0 – A9
76 – 71, 69 – 66
21 – 24, 27 – 32
A0 – A9
XRAS
XCAS
XWE
XOE
XRAS
UCAS
LCAS
XWE
XOE
XRD
XWR
XCS
XRDY
PWD
XRESETO
XRESETL
REFOUT
PLLCKI
(11)
(Page 25)
958OUT
DOUT
(9)
(Page 24)
I512
22.5792
LEVEL SHIFT
IC3013
FSS12 OUT
FSS12
(21)
(Page 27)
DATA
BCK
LRCK
MILES AUDIO
MILES RESET
SACKO
LRCKO
(19)
(Page 25)
I512 OFF
D0 – D15
A1 – A8
DATA BUS
ADDRESS BUS
EEPROM
IC3001
D0 – D7
11 – 13, 15 – 19
A0 – A12
10 – 2, 21, 25 – 23
D0 – D7
A1 – A13
CE
OE
WE
VCO
IC3005
FINA
FINB
VCOO
VCOX
DIVIDER
IC3009
QC
ENT
CLR
LOAD
CK
ENP
IC3007 (2/2)
DIVIDER
IC3006
CO
SWITCHING
IC3007 (1/2)
ERROR-3210
ERROR-3210
(15)
(Page 25)
• SIGNAL PATH
: AUDIO (DIGITAL)
ERR CLR
UN-MUTE
D0 – D15
88 – 73
A1 – A13
71 – 65, 63, 61 – 57
HD0 – HD7
7 – 1, 100
58, 69, 81, 95, 120, 124, 135, 6
HD0 – HD7
I. LINK SYSTEM CONTROLLER
IC3002
HCNTL0
HCNTL1
AKE_XF
HRDY
XHAS
XHDS1
XHDS2
XHCS
XRS
HRW
HBIL
HCNTL0
HCNTL1
XF
HRDY
HAS
HDS1
HDS2
HCS
RS
HR/W
HBIL
I. LINK DSP
IC3012
X1
X2/CLKIN
X3003
20MHz
EEP_CS
RD
WR
MIES AUDIO
CXD3270_XCS
RDY
PHY_BIAS
PHY_RST
LINK_RST
IIC DATA
IIC CLK
I2C-DATA
I2C-CLK
(23)
(Page 33)
RESET
RESET SWITCH
IC3011
XOUT
XIN
X3002
10MHz

6-5. BLOCK DIAGRAM – DSP Section –


(24) (Page 28)
F2 SBLR
F2 FLFR
F2 CSW
F2 SLSR
F2 LRCK
F2 BCK
(2) (Page 23)
D/A-L
D/A-R
(13) (Page 25)
D. SD
DIR-AUDIO
DIR-RMCK
DIR-LRCK
DIR-BCK
DIR-MCK
ERR/AUD SEL
DIR-RERR
(21) (Page 26)
DATA
BCK
LRCK
MILES AUDIO
MILES RESET
(12) (Page 25)
A
B
(25) (Page 28)
MCK
(7) (Page 24)
I LINK/AD512
A/D CONVERTER
IC2001
VINL
VINR
DOUT
BCK
LRCK
SCKI
DIGITAL AUDIO SELECT
IC2208
1C0
1C1
1C3
2C0
2C1
1Y
2Y
SWITCHING
IC2209
CLOCK SELECT
IC2205
1C0
1C1
1C3
2C0
2C1
2C3
1Y
2Y
BUFFER
IC2210
SWITCHING
IC2204
SWITCHING
IC2207
IBST
IBST SEL
LEVEL SHIFT
IC2203
CLOCK SELECT
IC2307
DSP1
IC2201
SDI4
SDI3
SDI2
SDI1
EXLOCK
BCKI1
BCKI2
LRCKI2
LRCKI1
BST
KFSIO
GP8
HACN
HDOUT
GP9
PM
XRST
HDIN
HCLK
HCS
SDO1
SDO2
SDO3
SDO4
BCKO
LRCKO
MCLK1
MCLK2
X2201
13.5MHz
1HACN
1HDOUT
1GP9
1PM
1XRST
DSP HDIN
DSP CLK
1HCS
DSP2
IC2251
SDI1
SDI2
SDI3
SDI4
BCKI1
LRCKI1
X2251
13.5MHz
MCLK1
MCLK2
LEVEL SHIFT
IC2254
KFSIO
2EXLOCK
2HACN
2HDOUT
2HCS
2BST
2GP3
2PM
2XRST
DSP HDIN
DSP CLK
EXLOCK
HACN
HDOUT
HCS
BST
GP3
PM
XRST
HDIN
HCLK
SDO1
SDO2
SDO3
SDO4
BCKO
LRCKO
GP7
D16 – 31
A0 – 15
D0 – 15
WEO
CSO
S-RAM
IC2252
S-RAM
IC2253
D0 – 15
A0 – 15
WE
CE
(26) (Page 28)
SDO1
SDO2
SDO3
SDO4
BCK
LRCK
STOP
ROW-RY2
POW-RY1
(27) (Page 34)
BUFFER
IC2704 (1/2)
D2603
BUFFER
IC2703 (1/3)
J3501
RS232C
TXD
DTR
RS-232C DRIVER
IC3501
T1OUT
R1IN
T1IN
R1OUT
SOUT1
2EXLOCK
2HACN
2HDOUT
2HCS
2BST
2GP3
2PM
2XRST
1HACN
1HDOUT
1HCS
1BST
1GP9
1PM
1XRST
1BST SEL
DSP HDIN
DSP CLK
FSRATE
PCM-SEL
ILINK RST
DIR-DTAAO
STOP
POW RY2
POW RY
MD2
A1IN
MD0
A1 OUT
SIN1
END-FLAG
A1-LAT
MAIN SYSTEM CONTROLLER
IC2601 (2/4)
SDA
SCL
X1
X0
X2601
16.5MHz
EEPROM
IC2603
RST TRG
RESET SIGNAL
BUFFER
IC2604
RESET SWITCH
IC2605
RSTX
MBUS-STS0
MBUS-STS1
MBUS-STS2
MBUS-STS3
MBUS-STS4
BUFFER
IC2704 (2/2)
BUFFER
IC2702
BUFFER
Q2703
BUFFER
IC2703 (2/3)
URTIN
ENDFLG
CTRL-LATCH
OUTHI2
OUTLO2
STAT0
STAT1
STAT2
STAT3
STAT4
RESETC
SUB SYSTEM
CONTROLLER
IC2701
A1-IN
A1-OUT
SIRCS_INPUT
RESET
XIN
XOUT
CARRIER-OUT
SIRCS-OUT
X2701
7.28MHz
D2701
CONTROL A1
INTERFACE
Q2701, 2702
J3533
CTRL A1II
SIRCS
(28) (Page 33)
RESET SIGNAL
GENERATOR
IC2706
D+5V
SIRCS SWITCH
IC2705
LEVEL
SHIFT
IC704
LED DRIVE
Q701 – 703
D710 – 713,
D716, 717
(IR RECEPTER)

• SIGNAL PATH
⇨ : AUDIO (ANALOG)
▨ : AUDIO (DIGITAL)

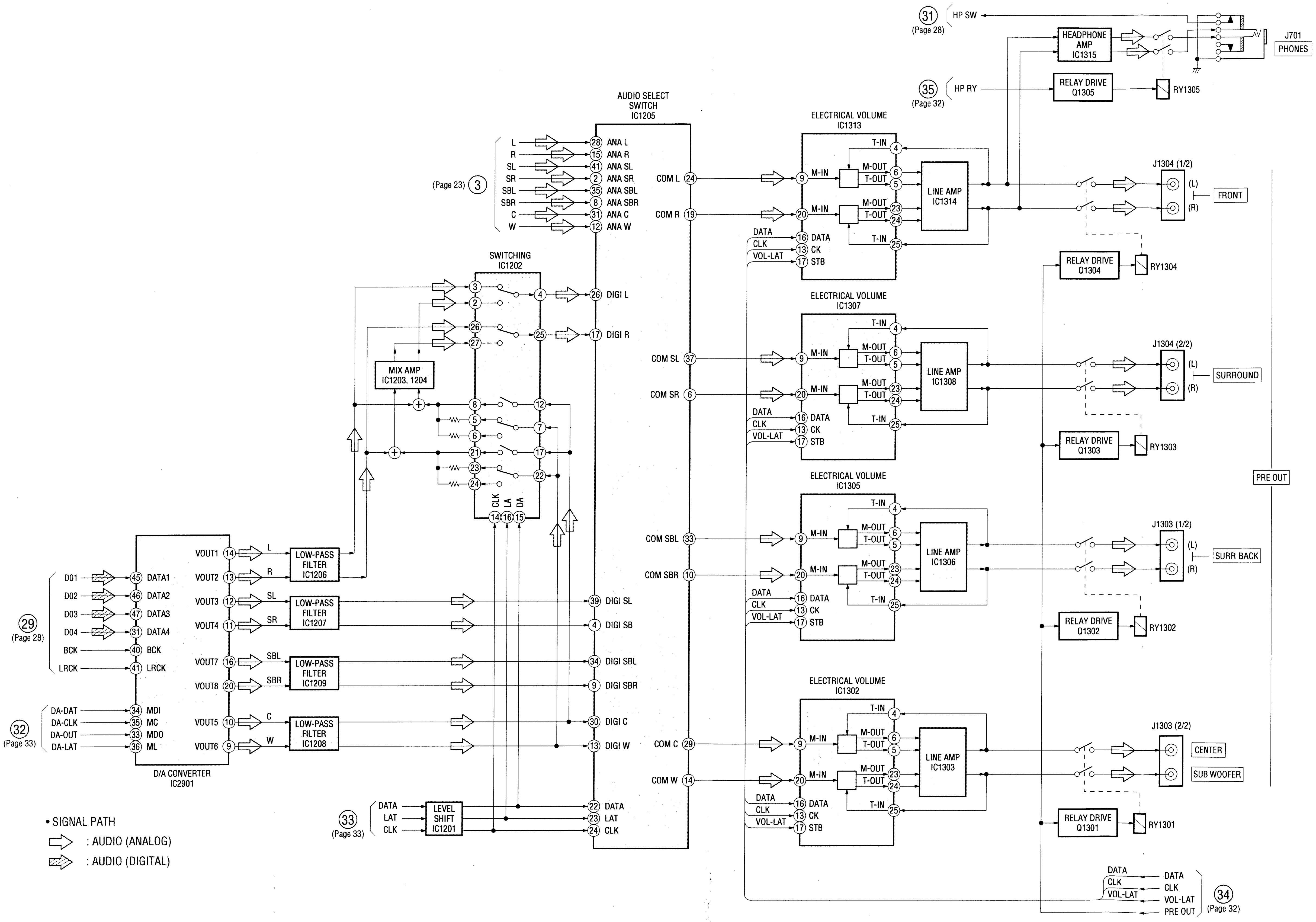
6-6. BLOCK DIAGRAM – DIGITAL AUDIO Section –


DC CUT
DIGITAL FILTER
IC2401
LIP SYNC ADJUST
IC2301
SD-RAM
IC2302
DSD SELECT
IC2063
DSD SELECT
IC2064
DSD SELECT
IC2052
DSD/PCM CONVERTER
IC2161
DSD/PCM CONVERTER
IC2163
BUFFER
IC2162
BUFFER
IC2164
BUFFER
IC2428 (3/5)
SWITCHING
IC2402
LEVEL SHIFT
IC2303
BUFFER
IC2428 (5/5)
DELAY
IC2427
SHIFT REGISTER
IC2429 (2/2)
BUFFER
IC2428 (2/5)
SHIFT REGISTER
IC2429 (1/2)
SHIFT REGISTER
IC2430
BUFFER
IC2428 (1/5)
BUFFER
IC2428 (4/5)
1/2 DIVIDER
IC2305
PROGRAMMABLE LOGIC DEVICE
IC2426
MUTING
IC2511
MUTING CONTROL
IC2512
BUFFER
IC2501
BUFFER
IC2504
BUFFER
IC2503
BUFFER
IC2506
OUTPUT CONTROLLER
IC1800 (1/2)
X1501
8MHz
SYSTEM MUTING SWICTH
Q2601 – 2603
MAIN SYSTEM CONTROLLER
IC2601 (3/4)
(26) (Page 27)
SD01
SD02
SD03
SD04
BCK
LRCK
(24) (Page 27)
F2 FLFR
F2 CSW
F2 SLSR
F2 SBLR
F2 BCK
F2 LRCK
(22) (Page 26)
DSD-L
DSD-R
DSD-SL
DSD-SR
DSD-C
DSD-W
64FS
(6) (Page 24)
AD-L
AD-R
AD-SL
AD-SR
AD-C
AD-W
AD-SBL
AD-SBR
AD-BCK
(8) (Page 24)
I LINK/AD512
(17) (Page 25)
SELFS1
SELFS2
SELCF1
SELCF2
CLKSEL
COM1-CLK
COM1-DAT
(25) (Page 27)
MCK
(18) (Page 25)
SWAP1
SWAP2
595C
TA-RST
(14) (Page 25)
DIR ERR
DIR CKST
(29) (Page 29)
D01
D02
D03
D04
LRCK
BCK
(30) (Page 30)
MCK1
BCKO
LRCKO
DATA1
DATA2
DATA3
DATA4
RESET
(31) (Page 29)
HP SW
2 A0 Y0 4
5 A1 Y1 7
11 A2 Y2 9
14 A3 Y3 12
3 B0
6 B1
10 B2
13 B3
S 1
10 1C0 1Y 9
11 1C1
12 1C2
13 1C3
6 2C0 2Y 7
5 2C1
4 2C2
3 2C3
B A 2 14
39 DSIFL POFLR 23
40 DSIFR POCSW 22
41 DSICT POSLR 21
42 DSISW SEL4FS 3
43 DSISL PBCK 19
44 DSISR PLRCK 20
38 DSBCK MCK 27
PBCK 19
PLRCK 20
SEL4FS 3
MCK 27
32 PIA12
33 PIA34
34 PIA56
35 PIA78
29 PA BCK
30 PA WCK
41 PIB12
42 PIB34
43 PIB56
44 PIB78
38 PBBCK
39 PBMCK
PI012 20
PI034 21
PI056 22
PI078 23
POBCK 17
POWCK 18
INIT 47
BBSEL 11
SELPID SELCF2 SELCF1 SELFS2 SELFS1 MCK
45 5 4 3 2 27
PID SCF2 SCF1 SFS2 SFS1
66 FLFRI
65 SLSRI
64 CSWI
63 DLDRI
D0 – 15
100-1 – 5-7-8-90 – 95-97-98
2-3-5-6-8-9-11-12-39-40-42-43-45-46-48-49
DQ0 – 15
A0 – 11
17 – 22-24 – 29
19 – 24-27 – 32
WE 10 — 15 WE
CAS 11 — 16 CAS
RAS 12 — 17 RAS
CS 13 — 18 CS
CLK 14 — 35 CLK
CKE 15 — 34 CKE
CLK 72 SCLK
DAT 74 SI
TA-SO 75 SO
TA-XCS 73 XCS
TA-XRST 70 XRST
CK512 LRCKI BCKI
68 59 60
FLFRO 47
SLSRO 46
CSWO 45
BL_BRD 44
35 DATA_1 DIOUT_1 22
36 DATA_2 DIOUT_2 21
37 DATA_3 DIOUT_3 20
38 DATA_4 DIOUT_4 19
1 EDGE
2 BCKIN
3 BCK2IN
5 MCK
12 MCKOUT
CLKSEL 32
FS 33
POWCK
POBCK
INIT
BBSEL
SFS1
PID
FS
SFS2
SCF1
SCF2
CLKSEL
CLK
DAT
LRCKO
BCKO
MCK1
MUTE
RESET
U-MAIN
U-SUB1
U-SUB2
60 42 14 64
U-SUB2 U-SUB1 U-MAIN MUTE
23 X1
22 X0
TA-XRST
MUTE
TA-XCS TA-SO RESET U-MAIN U-SUB1 U-SUB2 INIT BBSEL
29 30 83 85 87 86 25 88
TA-XCS TA-SO SUB-RST MAIN CLK MAIN DATA SUB DATA 9776-INIT BBSEL
HP IN 115
84 S-MUTE
22 DIR-ERROR
24 DIR-CKST
FS CLKSEL

- SIGNAL PATH

  ▨ : AUDIO (DIGITAL)

6-7. BLOCK DIAGRAM – AUDIO OUTPUT Section –

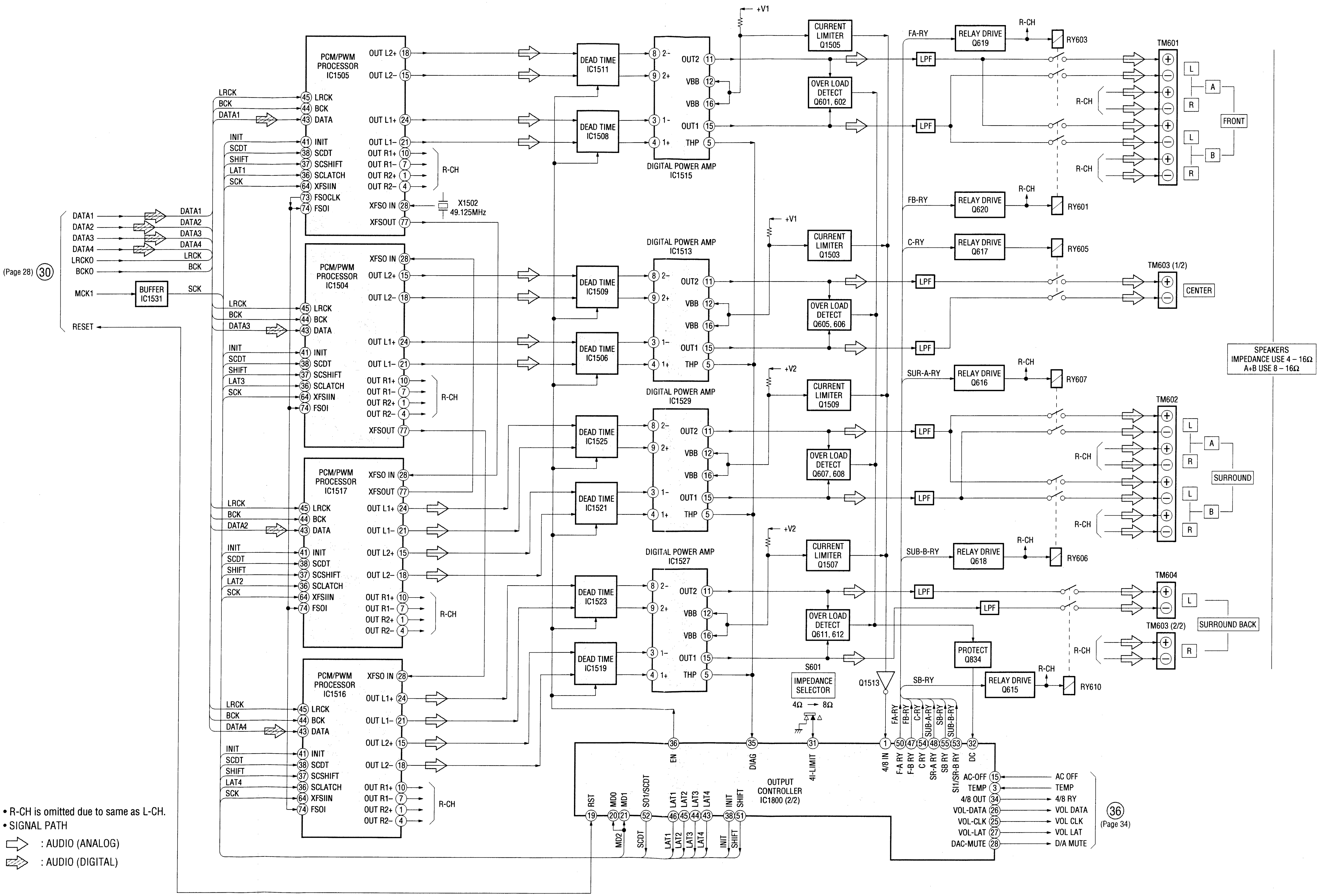

31
(Page 28)
HP SW
HEADPHONE AMP IC1315
J701
PHONES
35
(Page 32)
HP RY
RELAY DRIVE Q1305
RY1305
AUDIO SELECT SWITCH IC1205
(Page 23)
3
L
R
SL
SR
SBL
SBR
C
W
28 ANA L
15 ANA R
41 ANA SL
2 ANA SR
35 ANA SBL
8 ANA SBR
31 ANA C
12 ANA W
COM L 24
COM R 19
COM SL 37
COM SR 6
COM SBL 33
COM SBR 10
COM C 29
COM W 14
SWITCHING IC1202
26 DIGI L
17 DIGI R
MIX AMP IC1203, 1204
CLK
LA
DA
14 16 15
39 DIGI SL
4 DIGI SB
34 DIGI SBL
9 DIGI SBR
30 DIGI C
13 DIGI W
22 DATA
23 LAT
24 CLK
ELECTRICAL VOLUME IC1313
ELECTRICAL VOLUME IC1307
ELECTRICAL VOLUME IC1305
ELECTRICAL VOLUME IC1302
T-IN
M-IN
M-OUT
T-OUT
DATA
CLK
VOL-LAT
16 DATA
13 CK
17 STB
LINE AMP IC1314
LINE AMP IC1308
LINE AMP IC1306
LINE AMP IC1303
J1304 (1/2)
FRONT
J1304 (2/2)
SURROUND
J1303 (1/2)
SURR BACK
J1303 (2/2)
CENTER
SUB WOOFER
(L)
(R)
RELAY DRIVE Q1304
RY1304
RELAY DRIVE Q1303
RY1303
RELAY DRIVE Q1302
RY1302
RELAY DRIVE Q1301
RY1301
PRE OUT
29
(Page 28)
D01
D02
D03
D04
BCK
LRCK
45 DATA1
46 DATA2
47 DATA3
31 DATA4
40 BCK
41 LRCK
32
(Page 33)
DA-DAT
DA-CLK
DA-OUT
DA-LAT
34 MDI
35 MC
33 MDO
36 ML
VOUT1 14
VOUT2 13
VOUT3 12
VOUT4 11
VOUT7 16
VOUT8 20
VOUT5 10
VOUT6 9
D/A CONVERTER IC2901
LOW-PASS FILTER IC1206
LOW-PASS FILTER IC1207
LOW-PASS FILTER IC1209
LOW-PASS FILTER IC1208
33
(Page 33)
DATA
LAT
CLK
LEVEL SHIFT IC1201
34
(Page 32)
DATA
CLK
VOL-LAT
PRE OUT

• SIGNAL PATH

⇨ : AUDIO (ANALOG)

⇨ : AUDIO (DIGITAL)

6-8. BLOCK DIAGRAM – POWER AMP Section –

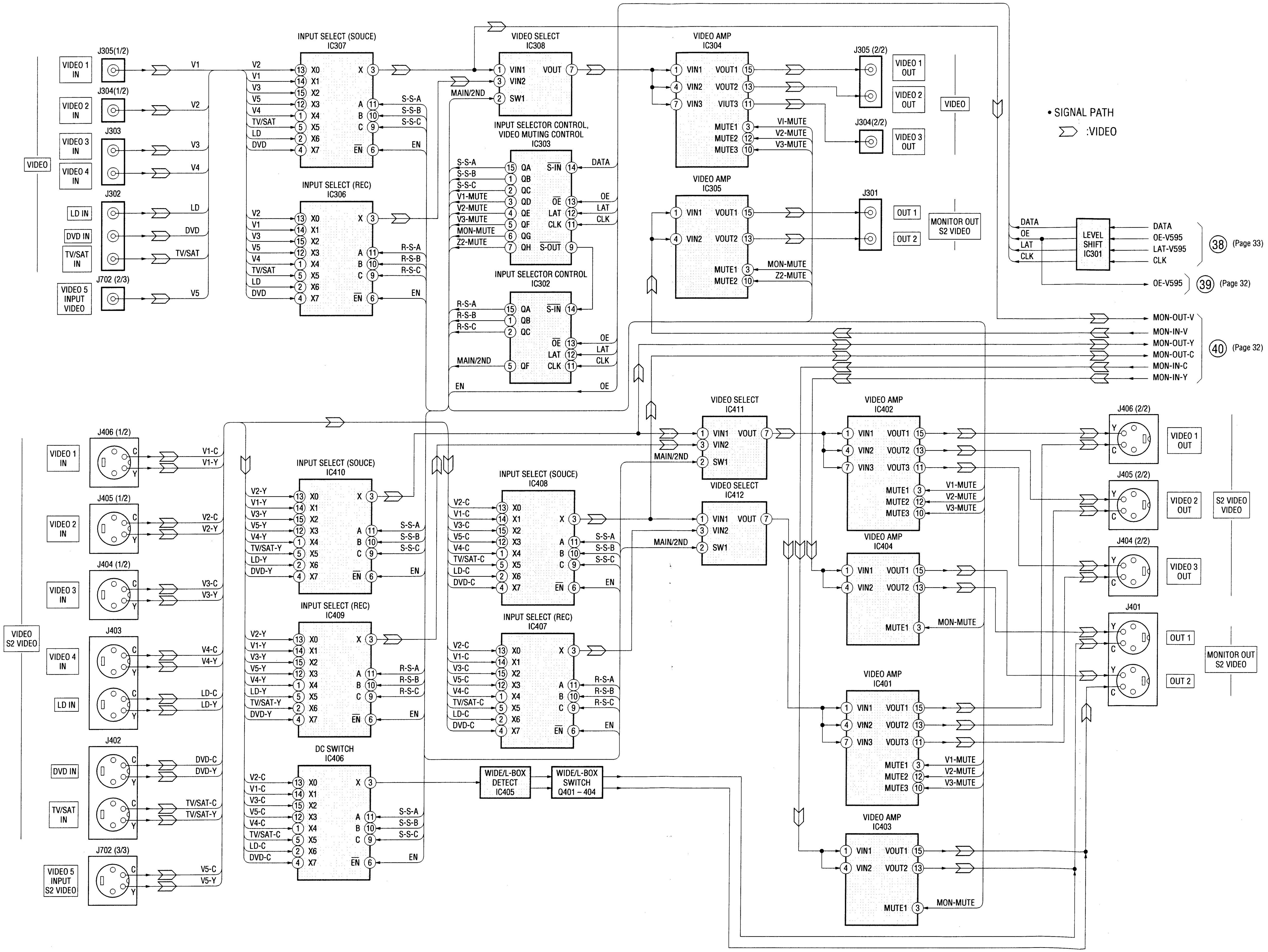

PCM/PWM PROCESSOR IC1505
PCM/PWM PROCESSOR IC1504
PCM/PWM PROCESSOR IC1517
PCM/PWM PROCESSOR IC1516
LRCK
BCK
DATA
INIT
SCDT
SCSHIFT
SCLATCH
XFSIIN
FSOCLK
FSOI
XFSO IN
XFSOUT
OUT L2+
OUT L2–
OUT L1+
OUT L1–
OUT R1+
OUT R1–
OUT R2+
OUT R2–
R-CH
X1502 49.125MHz
DATA1
DATA2
DATA3
DATA4
LRCKO
BCKO
MCK1
BUFFER IC1531
SCK
RESET
(Page 28) (30)
SHIFT
LAT1
LAT2
LAT3
LAT4
DEAD TIME IC1511
DEAD TIME IC1508
DEAD TIME IC1509
DEAD TIME IC1506
DEAD TIME IC1525
DEAD TIME IC1521
DEAD TIME IC1523
DEAD TIME IC1519
DIGITAL POWER AMP IC1515
DIGITAL POWER AMP IC1513
DIGITAL POWER AMP IC1529
DIGITAL POWER AMP IC1527
OUT2
VBB
OUT1
THP
+V1
+V2
CURRENT LIMITER Q1505
CURRENT LIMITER Q1503
CURRENT LIMITER Q1509
CURRENT LIMITER Q1507
OVER LOAD DETECT Q601, 602
OVER LOAD DETECT Q605, 606
OVER LOAD DETECT Q607, 608
OVER LOAD DETECT Q611, 612
LPF
FA-RY
FB-RY
C-RY
SUR-A-RY
SUB-B-RY
SB-RY
RELAY DRIVE Q619
RELAY DRIVE Q620
RELAY DRIVE Q617
RELAY DRIVE Q616
RELAY DRIVE Q618
RELAY DRIVE Q615
RY603
RY601
RY605
RY607
RY606
RY610
PROTECT Q834
Q1513
S601
IMPEDANCE SELECTOR
4Ω → 8Ω
TM601
TM603 (1/2)
TM602
TM604
TM603 (2/2)
L
R
A
B
FRONT
CENTER
SURROUND
SURROUND BACK
SPEAKERS IMPEDANCE USE 4 – 16Ω A+B USE 8 – 16Ω
OUTPUT CONTROLLER IC1800 (2/2)
EN
DIAG
4I-LIMIT
4/8 IN
F-A RY
F-B RY
C RY
SR-A RY
SB RY
SI1/SR-B RY
DC
RST
MD0
MD1
SO1/SCDT
MD2
SCDT
INIT
SHIFT
AC-OFF
TEMP
4/8 OUT
VOL-DATA
VOL-CLK
VOL-LAT
DAC-MUTE
AC OFF
4/8 RY
VOL DATA
VOL CLK
VOL LAT
D/A MUTE
(36) (Page 34)

- R-CH is omitted due to same as L-CH.
- SIGNAL PATH

⇨ : AUDIO (ANALOG)

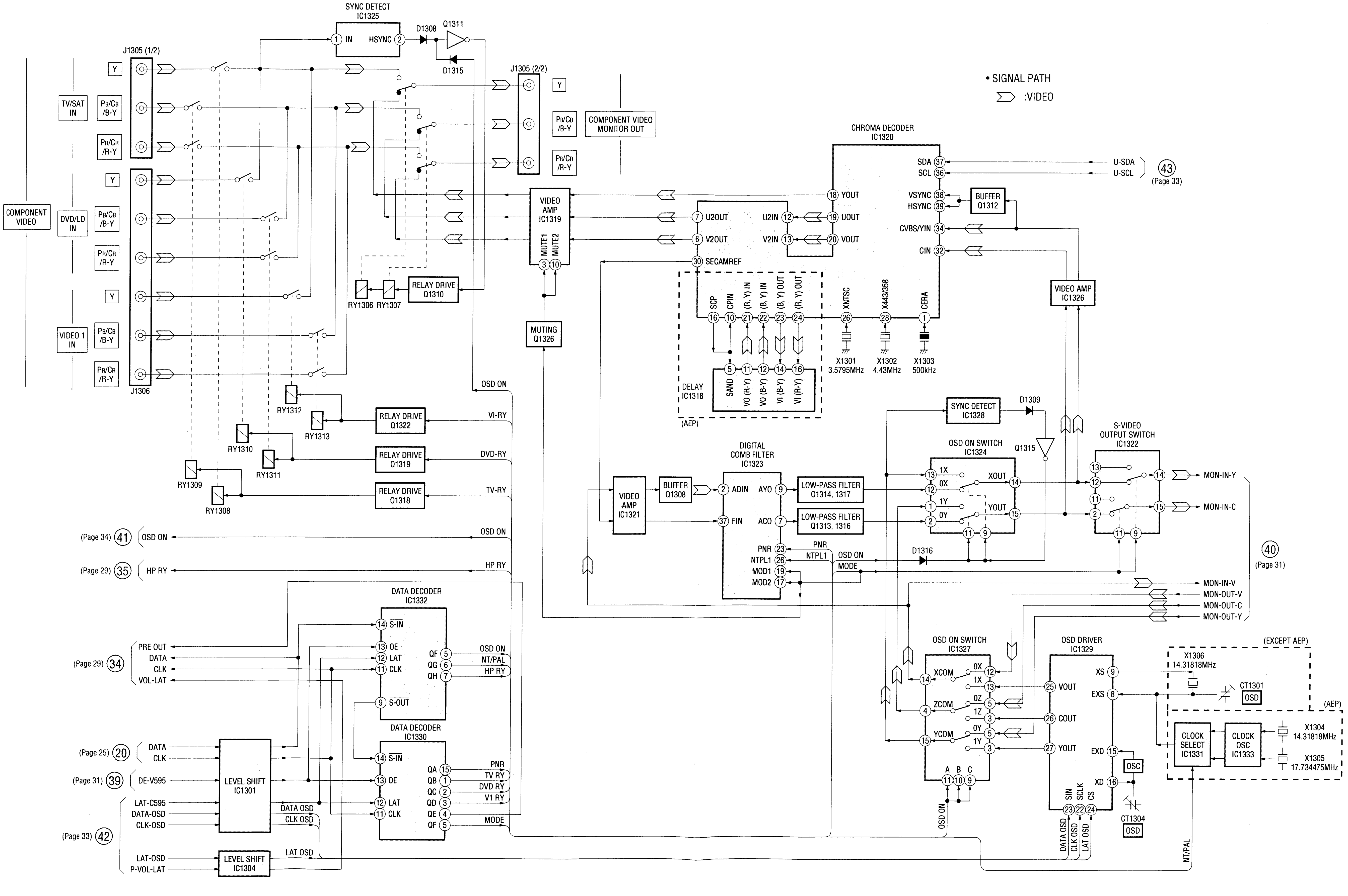
⇨ : AUDIO (DIGITAL)

6-9. BLOCK DIAGRAM – VIDEO INPUT/OUT Section –

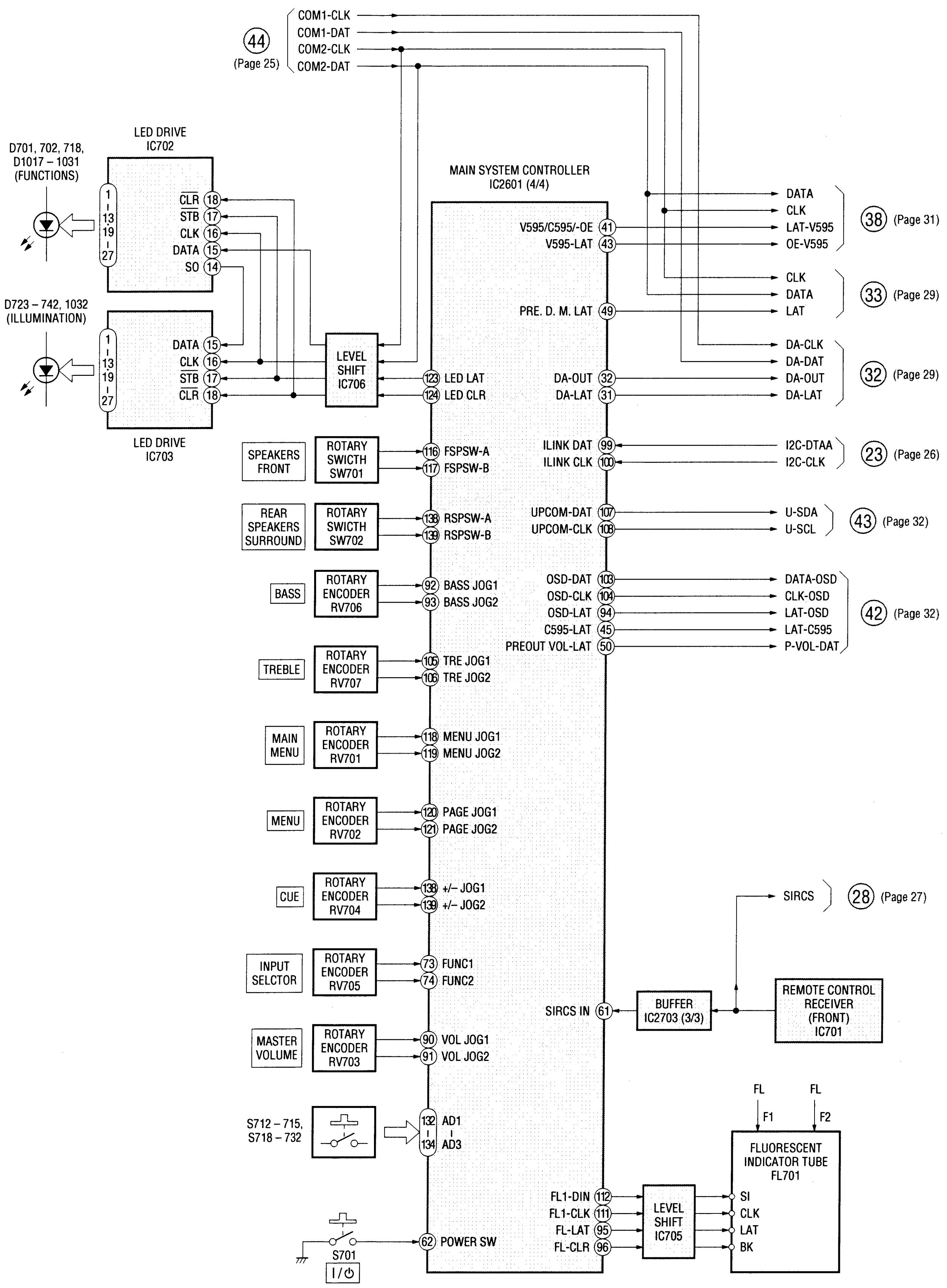


VIDEO
J305(1/2)
VIDEO 1 IN
J304(1/2)
VIDEO 2 IN
J303
VIDEO 3 IN
VIDEO 4 IN
J302
LD IN
DVD IN
TV/SAT IN
J702 (2/3)
VIDEO 5 INPUT VIDEO
V1
V2
V3
V4
LD
DVD
TV/SAT
V5
INPUT SELECT (SOUCE) IC307
X0 X1 X2 X3 X4 X5 X6 X7
X
A B C EN
S-S-A
S-S-B
S-S-C
EN
INPUT SELECT (REC) IC306
R-S-A
R-S-B
R-S-C
VIDEO SELECT IC308
VIN1 VIN2 SW1 VOUT
MAIN/2ND
INPUT SELECTOR CONTROL, VIDEO MUTING CONTROL IC303
QA QB QC QD QE QF QG QH
S-IN OE LAT CLK S-OUT
DATA
V1-MUTE
V2-MUTE
V3-MUTE
MON-MUTE
Z2-MUTE
INPUT SELECTOR CONTROL IC302
VIDEO AMP IC304
VIN1 VIN2 VIN3
VOUT1 VOUT2 VIUT3
MUTE1 MUTE2 MUTE3
VI-MUTE
J305 (2/2)
VIDEO 1 OUT
VIDEO 2 OUT
J304(2/2)
VIDEO 3 OUT
VIDEO
VIDEO AMP IC305
J301
OUT 1
OUT 2
MONITOR OUT S2 VIDEO
• SIGNAL PATH
:VIDEO
LEVEL SHIFT IC301
DATA
OE
LAT
CLK
OE-V595
LAT-V595
38 (Page 33)
39 (Page 32)
MON-OUT-V
MON-IN-V
MON-OUT-Y
MON-OUT-C
MON-IN-C
MON-IN-Y
40 (Page 32)
VIDEO S2 VIDEO
J406 (1/2)
J405 (1/2)
J404 (1/2)
J403
J402
J702 (3/3)
VIDEO 5 INPUT S2 VIDEO
V1-C V1-Y
V2-C V2-Y
V3-C V3-Y
V4-C V4-Y
LD-C LD-Y
DVD-C DVD-Y
TV/SAT-C TV/SAT-Y
V5-C V5-Y
C
Y
INPUT SELECT (SOUCE) IC410
INPUT SELECT (REC) IC409
DC SWITCH IC406
INPUT SELECT (SOUCE) IC408
INPUT SELECT (REC) IC407
WIDE/L-BOX DETECT IC405
WIDE/L-BOX SWITCH Q401 – 404
VIDEO SELECT IC411
VIDEO SELECT IC412
VIDEO AMP IC402
VIDEO AMP IC404
VIDEO AMP IC401
VIDEO AMP IC403
J406 (2/2)
J405 (2/2)
J404 (2/2)
J401
S2 VIDEO VIDEO
MONITOR OUT S2 VIDEO

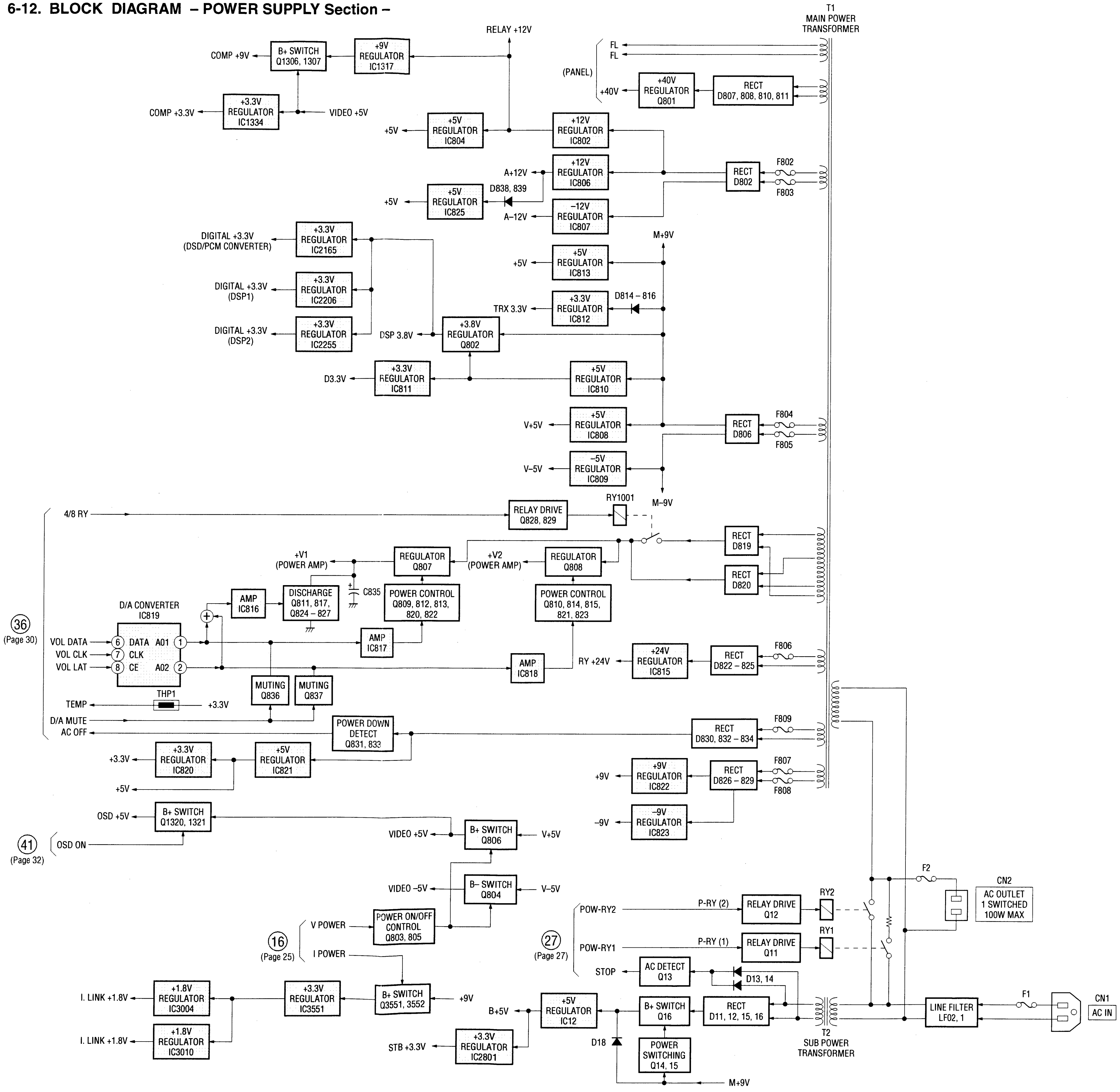
6-10. BLOCK DIAGRAM – COMPONENT VIDEO Section –


SYNC DETECT IC1325
IN
HSYNC
D1308
Q1311
D1315
J1305 (1/2)
J1305 (2/2)
J1306
COMPONENT VIDEO
TV/SAT IN
DVD/LD IN
VIDEO 1 IN
Y
PB/CB /B-Y
PR/CR /R-Y
COMPONENT VIDEO MONITOR OUT
• SIGNAL PATH
:VIDEO
CHROMA DECODER IC1320
SDA
SCL
U-SDA
U-SCL
43
(Page 33)
YOUT
UOUT
VOUT
VSYNC
HSYNC
CVBS/YIN
CIN
BUFFER Q1312
VIDEO AMP IC1319
MUTE1
MUTE2
U2OUT
V2OUT
U2IN
V2IN
SECAMREF
SCP
CPIN
(R, Y) IN
(B, Y) IN
(B, Y) OUT
(R, Y) OUT
XNTSC
X443/358
CERA
X1301 3.5795MHz
X1302 4.43MHz
X1303 500kHz
DELAY IC1318
SAND
VO (R-Y)
VO (B-Y)
VI (B-Y)
VI (R-Y)
(AEP)
RELAY DRIVE Q1310
RY1306
RY1307
MUTING Q1326
VIDEO AMP IC1326
OSD ON
VI-RY
DVD-RY
TV-RY
RY1312
RY1313
RY1310
RY1311
RY1309
RY1308
RELAY DRIVE Q1322
RELAY DRIVE Q1319
RELAY DRIVE Q1318
SYNC DETECT IC1328
D1309
Q1315
S-VIDEO OUTPUT SWITCH IC1322
OSD ON SWITCH IC1324
1X
0X
1Y
0Y
XOUT
YOUT
DIGITAL COMB FILTER IC1323
VIDEO AMP IC1321
BUFFER Q1308
ADIN
AYO
FIN
ACO
LOW-PASS FILTER Q1314, 1317
LOW-PASS FILTER Q1313, 1316
PNR
NTPL1
MOD1
MOD2
MODE
D1316
MON-IN-Y
MON-IN-C
MON-IN-V
MON-OUT-V
MON-OUT-C
MON-OUT-Y
40
(Page 31)
(Page 34) 41 OSD ON
(Page 29) 35 HP RY
DATA DECODER IC1332
S-IN
OE
LAT
CLK
S-OUT
QF
QG
QH
NT/PAL
HP RY
(Page 29) 34
PRE OUT
DATA
CLK
VOL-LAT
DATA DECODER IC1330
QA
QB
QC
QD
QE
TV RY
DVD RY
V1 RY
(Page 25) 20
(Page 31) 39 DE-V595
LEVEL SHIFT IC1301
LAT-C595
DATA-OSD
CLK-OSD
(Page 33) 42
LAT-OSD
P-VOL-LAT
LEVEL SHIFT IC1304
DATA OSD
CLK OSD
LAT OSD
OSD ON SWITCH IC1327
XCOM
ZCOM
YCOM
0X
1X
0Z
1Z
0Y
1Y
A B C
OSD DRIVER IC1329
VOUT
COUT
YOUT
XS
EXS
EXD
XD
SIN
SCLK
CS
DATA OSD
CLK OSD
LAT OSD
OSC
CT1304
(EXCEPT AEP)
X1306 14.31818MHz
CT1301
(AEP)
CLOCK SELECT IC1331
CLOCK OSC IC1333
X1304 14.31818MHz
X1305 17.734475MHz
NT/PAL

6-11. BLOCK DIAGRAM – DISPLAY/CONTROL Section –


44
(Page 25)
COM1-CLK
COM1-DAT
COM2-CLK
COM2-DAT
D701, 702, 718,
D1017 – 1031
(FUNCTIONS)
LED DRIVE
IC702
1
13
19
27
CLR 18
STB 17
CLK 16
DATA 15
SO 14
D723 – 742, 1032
(ILLUMINATION)
DATA 15
CLK 16
STB 17
CLR 18
LED DRIVE
IC703
LEVEL
SHIFT
IC706
MAIN SYSTEM CONTROLLER
IC2601 (4/4)
V595/C595/-OE 41
V595-LAT 43
PRE. D. M. LAT 49
123 LED LAT
124 LED CLR
DA-OUT 32
DA-LAT 31
DATA
CLK
LAT-V595
OE-V595
38 (Page 31)
CLK
DATA
LAT
33 (Page 29)
DA-CLK
DA-DAT
DA-OUT
DA-LAT
32 (Page 29)
SPEAKERS
FRONT
ROTARY
SWICTH
SW701
116 FSPSW-A
117 FSPSW-B
ILINK DAT 99
ILINK CLK 100
I2C-DTAA
I2C-CLK
23 (Page 26)
REAR
SPEAKERS
SURROUND
ROTARY
SWITCH
SW702
138 RSPSW-A
139 RSPSW-B
UPCOM-DAT 107
UPCOM-CLK 108
U-SDA
U-SCL
43 (Page 32)
BASS
ROTARY
ENCODER
RV706
92 BASS JOG1
93 BASS JOG2
OSD-DAT 103
OSD-CLK 104
OSD-LAT 94
C595-LAT 45
PREOUT VOL-LAT 50
DATA-OSD
CLK-OSD
LAT-OSD
LAT-C595
P-VOL-DAT
42 (Page 32)
TREBLE
ROTARY
ENCODER
RV707
105 TRE JOG1
106 TRE JOG2
MAIN
MENU
ROTARY
ENCODER
RV701
118 MENU JOG1
119 MENU JOG2
MENU
ROTARY
ENCODER
RV702
120 PAGE JOG1
121 PAGE JOG2
CUE
ROTARY
ENCODER
RV704
138 +/– JOG1
139 +/– JOG2
SIRCS
28 (Page 27)
INPUT
SELCTOR
ROTARY
ENCODER
RV705
73 FUNC1
74 FUNC2
SIRCS IN 61
BUFFER
IC2703 (3/3)
REMOTE CONTROL
RECEIVER
(FRONT)
IC701
MASTER
VOLUME
ROTARY
ENCODER
RV703
90 VOL JOG1
91 VOL JOG2
FL
FL
F1
F2
S712 – 715,
S718 – 732
132 AD1
134 AD3
FLUORESCENT
INDICATOR TUBE
FL701
FL1-DIN 112
FL1-CLK 111
FL-LAT 95
FL-CLR 96
LEVEL
SHIFT
IC705
SI
CLK
LAT
BK
62 POWER SW
S701
I/⏻

6-12. BLOCK DIAGRAM – POWER SUPPLY Section –


T1
MAIN POWER
TRANSFORMER
RELAY +12V
COMP +9V
B+ SWITCH
Q1306, 1307
+9V
REGULATOR
IC1317
COMP +3.3V
+3.3V
REGULATOR
IC1334
VIDEO +5V
FL
FL
(PANEL)
+40V
+40V
REGULATOR
Q801
RECT
D807, 808, 810, 811
+5V
+5V
REGULATOR
IC804
+12V
REGULATOR
IC802
A+12V
+12V
REGULATOR
IC806
RECT
D802
F802
F803
+5V
+5V
REGULATOR
IC825
D838, 839
A–12V
–12V
REGULATOR
IC807
M+9V
DIGITAL +3.3V
(DSD/PCM CONVERTER)
+3.3V
REGULATOR
IC2165
+5V
+5V
REGULATOR
IC813
DIGITAL +3.3V
(DSP1)
+3.3V
REGULATOR
IC2206
TRX 3.3V
+3.3V
REGULATOR
IC812
D814 – 816
DIGITAL +3.3V
(DSP2)
+3.3V
REGULATOR
IC2255
DSP 3.8V
+3.8V
REGULATOR
Q802
D3.3V
+3.3V
REGULATOR
IC811
+5V
REGULATOR
IC810
V+5V
+5V
REGULATOR
IC808
RECT
D806
F804
F805
V–5V
–5V
REGULATOR
IC809
RY1001
M–9V
4/8 RY
RELAY DRIVE
Q828, 829
RECT
D819
+V1
(POWER AMP)
REGULATOR
Q807
+V2
(POWER AMP)
REGULATOR
Q808
RECT
D820
D/A CONVERTER
IC819
AMP
IC816
DISCHARGE
Q811, 817,
Q824 – 827
C835
POWER CONTROL
Q809, 812, 813,
820, 822
POWER CONTROL
Q810, 814, 815,
821, 823
36
(Page 30)
VOL DATA
VOL CLK
VOL LAT
6
7
8
DATA
CLK
CE
A01
A02
1
2
AMP
IC817
AMP
IC818
RY +24V
+24V
REGULATOR
IC815
RECT
D822 – 825
F806
MUTING
Q836
MUTING
Q837
THP1
TEMP
+3.3V
D/A MUTE
AC OFF
POWER DOWN
DETECT
Q831, 833
RECT
D830, 832 – 834
F809
+3.3V
+3.3V
REGULATOR
IC820
+5V
REGULATOR
IC821
+5V
+9V
+9V
REGULATOR
IC822
RECT
D826 – 829
F807
F808
–9V
–9V
REGULATOR
IC823
OSD +5V
B+ SWITCH
Q1320, 1321
VIDEO +5V
B+ SWITCH
Q806
V+5V
41
(Page 32)
OSD ON
VIDEO –5V
B– SWITCH
Q804
V–5V
F2
CN2
AC OUTLET
1 SWITCHED
100W MAX
POW-RY2
P-RY (2)
RELAY DRIVE
Q12
RY2
RY1
V POWER
POWER ON/OFF
CONTROL
Q803, 805
16
(Page 25)
I POWER
27
(Page 27)
POW-RY1
P-RY (1)
RELAY DRIVE
Q11
STOP
AC DETECT
Q13
D13, 14
I. LINK +1.8V
+1.8V
REGULATOR
IC3004
+3.3V
REGULATOR
IC3551
B+ SWITCH
Q3551, 3552
+9V
B+5V
+5V
REGULATOR
IC12
B+ SWITCH
Q16
RECT
D11, 12, 15, 16
F1
CN1
AC IN
LINE FILTER
LF02, 1
T2
SUB POWER
TRANSFORMER
I. LINK +1.8V
+1.8V
REGULATOR
IC3010
STB +3.3V
+3.3V
REGULATOR
IC2801
D18
POWER
SWITCHING
Q14, 15
M+9V

6-13. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

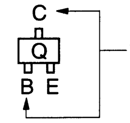
Note on Printed Wiring Board:

- o—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.

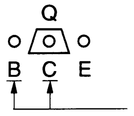
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

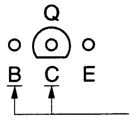
- Indication of transistor



These are omitted.



These are omitted.



These are omitted.

- DIGITAL, AMP, FCOIL, RCOIL, I. LINK, F. VIDEO, IR and S. F boards are multi-layer printed board.
  However, the patterns of intermediate layers have not been included in this diagrams.

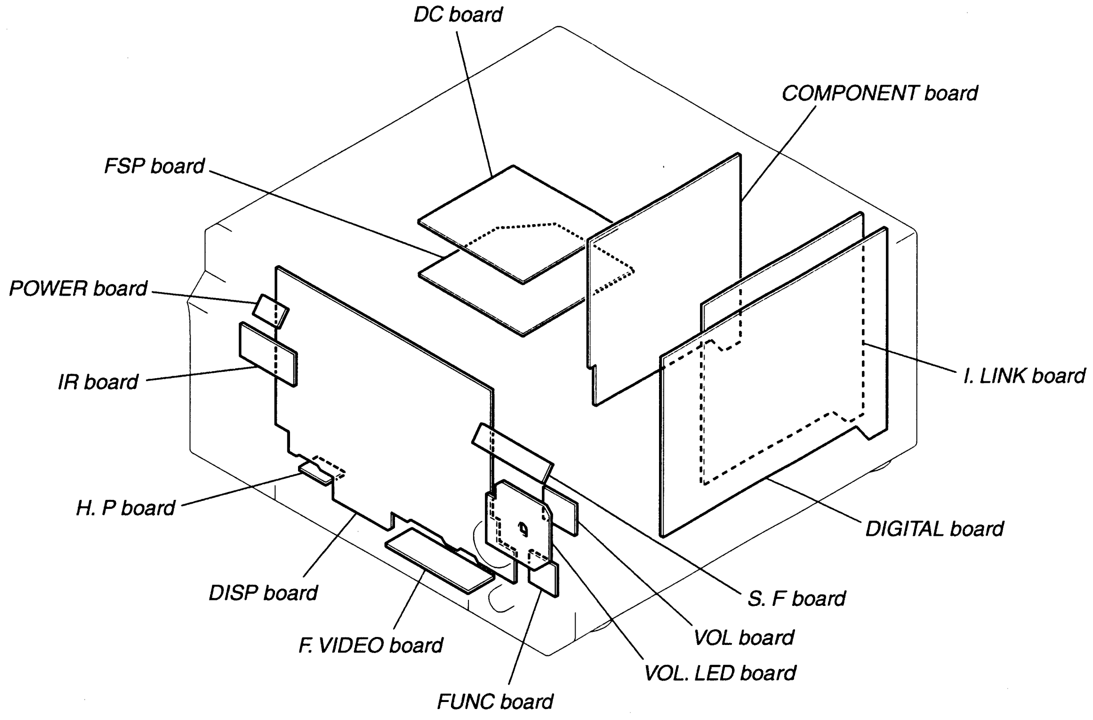
Note on Schematic Diagram:

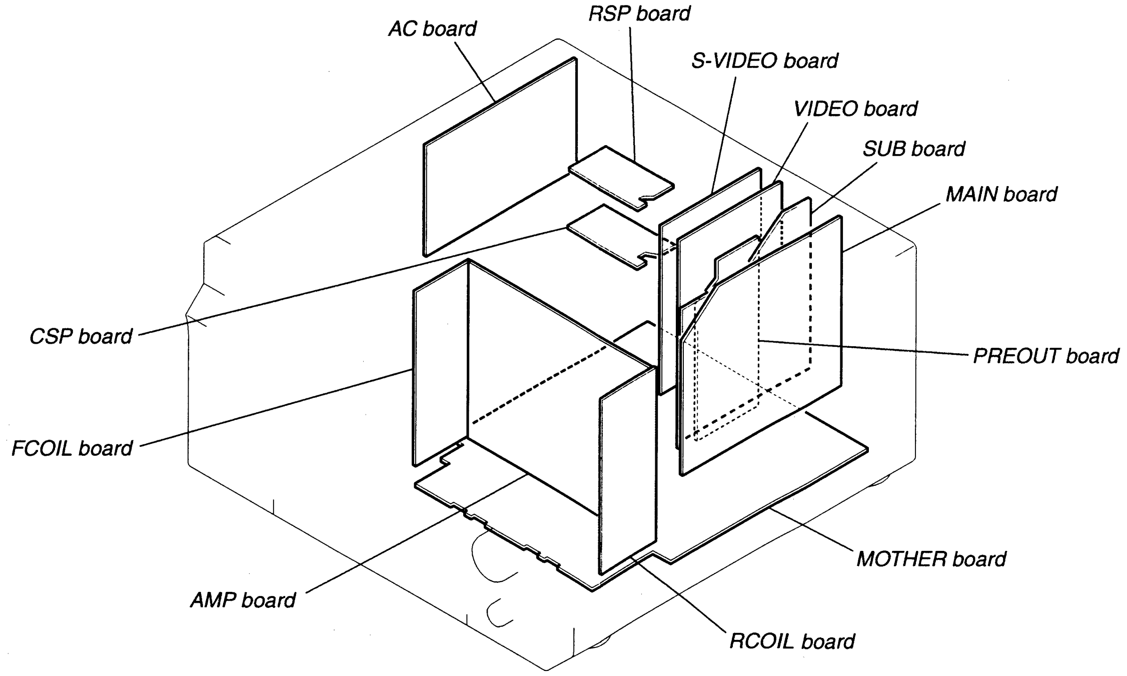
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- -⊡- : fusible resistor.
- -⊡- : nonflammable resistor.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ━━ : B+ Line.
- ━ ━ ━ : B– Line.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : VIDEO 1 mode
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO (ANALOG)
  ⇨ : AUDIO (DIGITAL)
  ▷ : VIDEO
- Abbreviation
  KR : Korean model
  TW : Taiwan model

- **Circuit Boards Location**


DC board
COMPONENT board
FSP board
POWER board
IR board
I. LINK board
H. P board
DIGITAL board
DISP board
S. F board
F. VIDEO board
VOL board
VOL. LED board
FUNC board


AC board
RSP board
S-VIDEO board
VIDEO board
SUB board
MAIN board
CSP board
PREOUT board
FCOIL board
MOTHER board
AMP board
RCOIL board

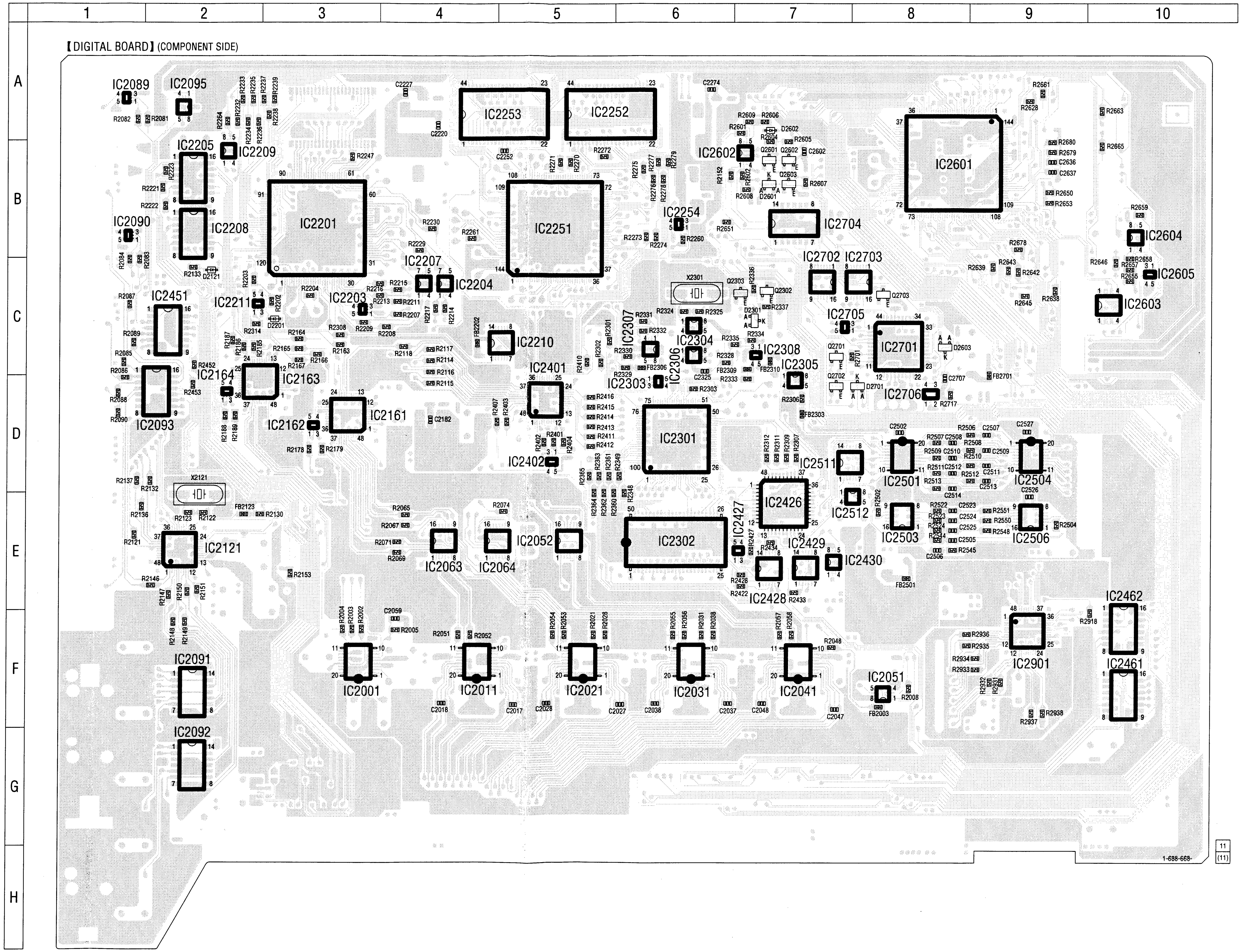
6-14. PRINTED WIRING BOARD – DIGITAL Board (Component Side) –

• See page 35 for Circuit Boards Location.

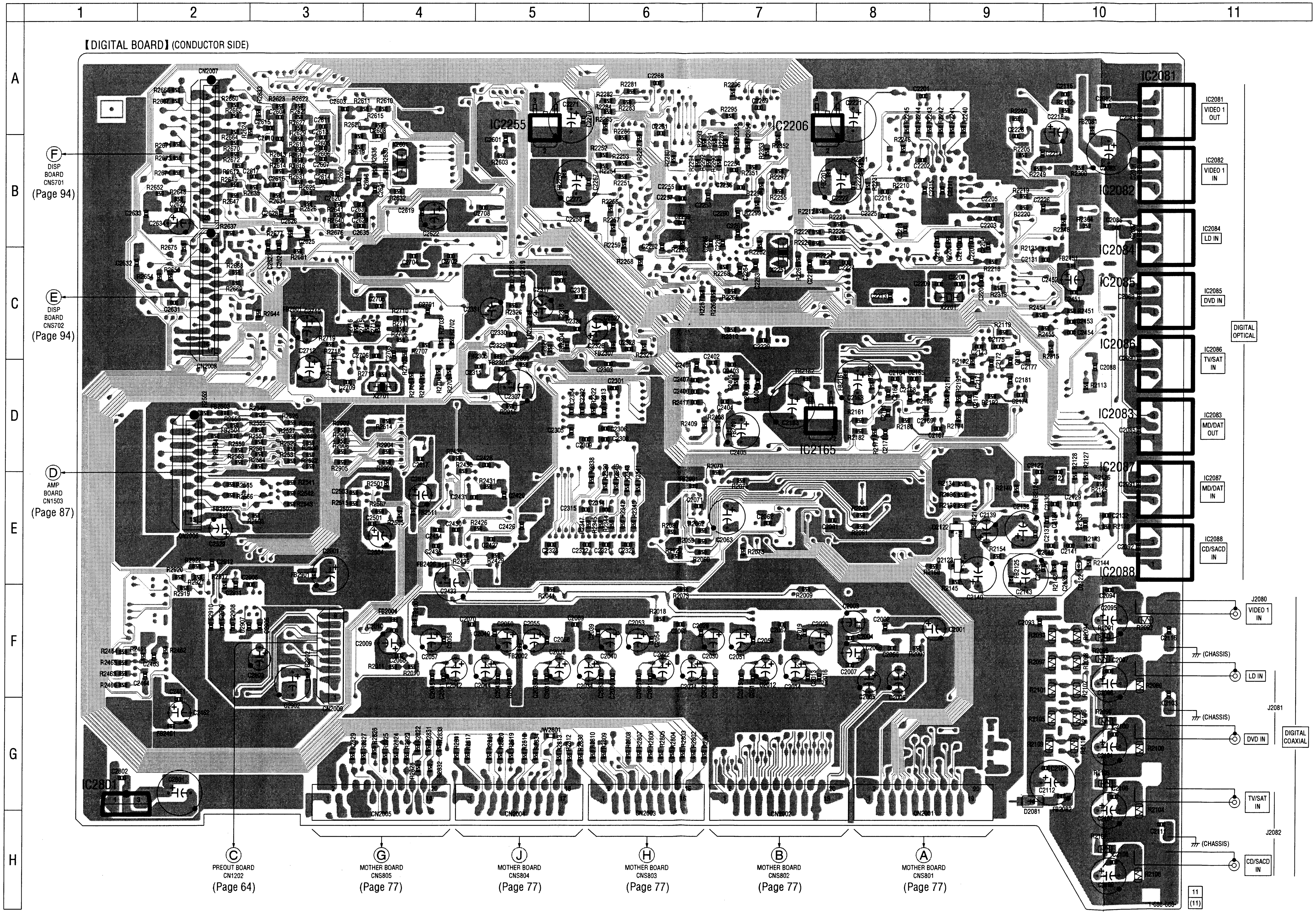
🄻🄵 :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D2121	C-2	IC2303	D-6
D2201	C-3	IC2304	C-6
D2301	C-7	IC2305	D-7
D2601	B-7	IC2306	C-6
D2602	A-7	IC2307	C-6
D2603	C-8	IC2308	C-7
D2701	D-8	IC2401	D-5
		IC2402	D-5
IC2001	F-3	IC2426	E-7
IC2011	F-4	IC2427	E-7
IC2021	F-5	IC2428	E-7
IC2031	F-6	IC2429	E-7
IC2041	F-7	IC2430	E-7
IC2051	F-8	IC2451	C-2
IC2052	E-5	IC2461	F-10
IC2063	E-4	IC2462	F-10
IC2064	E-5	IC2501	D-8
IC2089	A-1	IC2503	E-8
IC2090	B-1	IC2504	D-9
IC2091	F-2	IC2506	E-9
IC2092	G-2	IC2511	D-7
IC2093	D-2	IC2512	E-8
IC2095	A-2	IC2601	B-8
IC2121	E-2	IC2602	B-7
IC2161	D-3	IC2603	C-10
IC2162	D-3	IC2604	B-10
IC2163	D-2	IC2605	C-10
IC2164	D-2	IC2701	C-8
IC2201	B-3	IC2702	C-7
IC2203	C-3	IC2703	C-8
IC2204	C-4	IC2704	B-7
IC2205	B-2	IC2705	C-7
IC2207	C-4	IC2706	D-8
IC2208	B-2	IC2901	F-9
IC2209	B-2		
IC2210	C-5	Q2302	C-7
IC2211	C-2	Q2303	C-7
IC2251	B-5	Q2601	B-7
IC2252	A-5	Q2602	B-7
IC2253	A-5	Q2603	B-7
IC2254	B-6	Q2701	C-7
IC2301	D-6	Q2702	D-7
IC2302	E-6	Q2703	C-8


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
【DIGITAL BOARD】(COMPONENT SIDE)
IC2089
IC2095
IC2205
IC2209
IC2253
IC2252
IC2602
IC2601
IC2090
IC2208
IC2201
IC2251
IC2254
IC2704
IC2604
IC2207
IC2204
IC2702
IC2703
IC2605
IC2451
IC2211
IC2203
IC2210
IC2307
IC2304
IC2308
IC2305
IC2705
IC2603
IC2164
IC2163
IC2401
IC2306
IC2303
IC2701
IC2706
IC2093
IC2162
IC2161
IC2301
IC2402
IC2511
IC2501
IC2504
IC2426
IC2512
IC2427
IC2121
IC2063
IC2064
IC2052
IC2302
IC2429
IC2430
IC2503
IC2506
IC2428
IC2462
IC2901
IC2091
IC2001
IC2011
IC2021
IC2031
IC2041
IC2051
IC2461
IC2092
X2121
X2301
1-688-668-
11
(11)

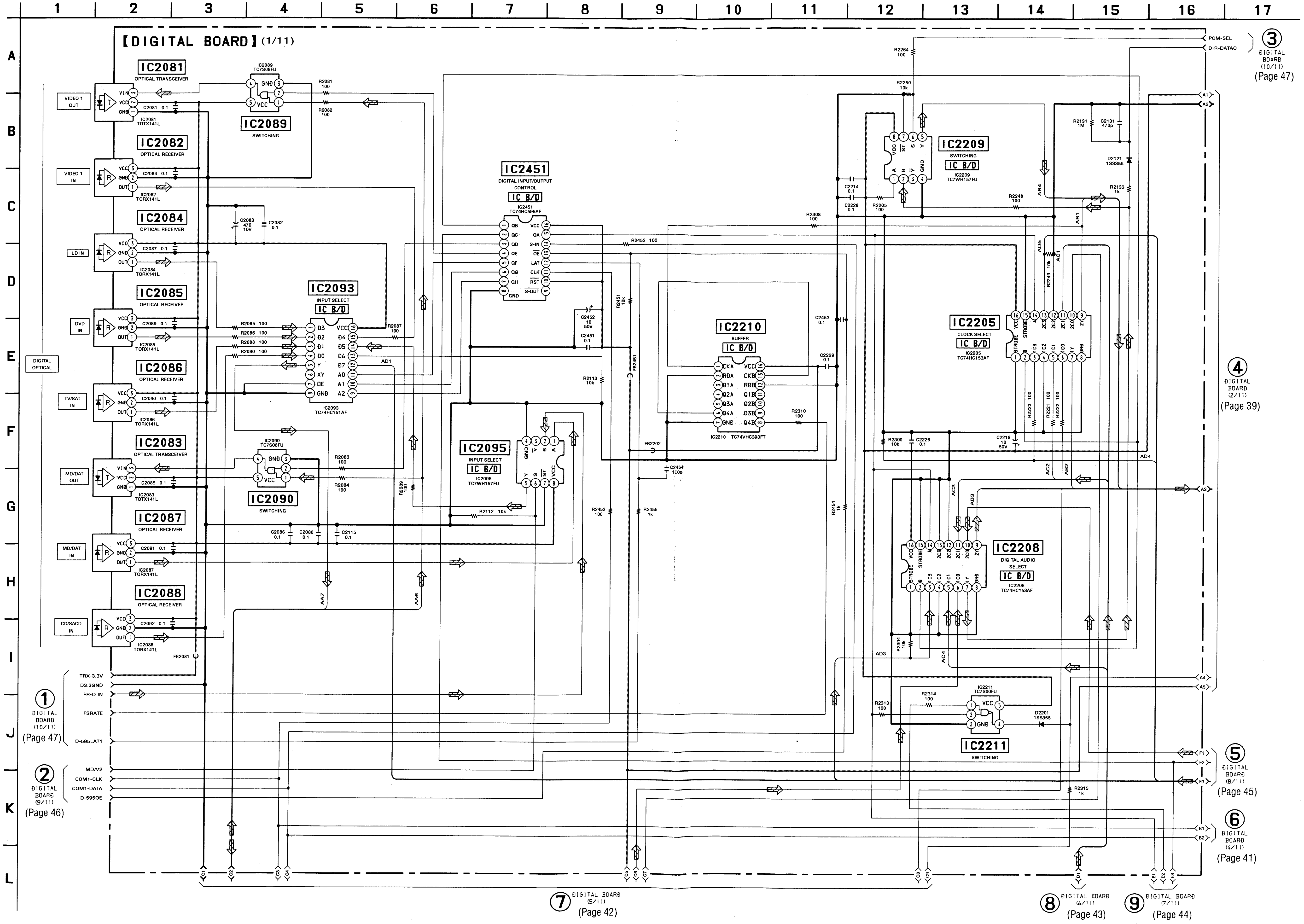
6-15. PRINTED WIRING BOARD – DIGITAL Board (Conductor Side) – • See page 35 for Circuit Boards Location. 🄻🄵 :Uses unleaded solder.


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
【DIGITAL BOARD】(CONDUCTOR SIDE)
Ⓕ DISP BOARD CNS701 (Page 94)
Ⓔ DISP BOARD CNS702 (Page 94)
Ⓓ AMP BOARD CN1503 (Page 87)
Ⓒ PREOUT BOARD CN1202 (Page 64)
Ⓖ MOTHER BOARD CNS805 (Page 77)
Ⓙ MOTHER BOARD CNS804 (Page 77)
Ⓗ MOTHER BOARD CNS803 (Page 77)
Ⓑ MOTHER BOARD CNS802 (Page 77)
Ⓐ MOTHER BOARD CNS801 (Page 77)
IC2081 VIDEO 1 OUT
IC2082 VIDEO 1 IN
IC2084 LD IN
IC2085 DVD IN
IC2086 TV/SAT IN
IC2083 MD/DAT OUT
IC2087 MD/DAT IN
IC2088 CD/SACD IN
DIGITAL OPTICAL
J2080 VIDEO 1 IN
(CHASSIS)
LD IN
DVD IN
TV/SAT IN
CD/SACD IN
J2081
J2082
DIGITAL COAXIAL
IC2081
IC2082
IC2083
IC2084
IC2085
IC2086
IC2087
IC2088
IC2255
IC2206
IC2165
IC2801
D2081
CN2007
CN2008
CN2005
CN2004
CN2003
CN2002
CN2001
11 (11)

• Semiconductor Location

Ref. No.	Location
D2081	G-9
D2122	E-10
IC2081	A-11
IC2082	B-11
IC2083	B-11
IC2084	C-11
IC2085	D-11
IC2086	D-11
IC2087	E-11
IC2088	E-11
IC2165	D-8
IC2206	A-8
IC2255	A-5
IC2801	G-1
Q2122	E-9
Q2123	E-9

6-16. SCHEMATIC DIAGRAM – DIGITAL Board (1/11) –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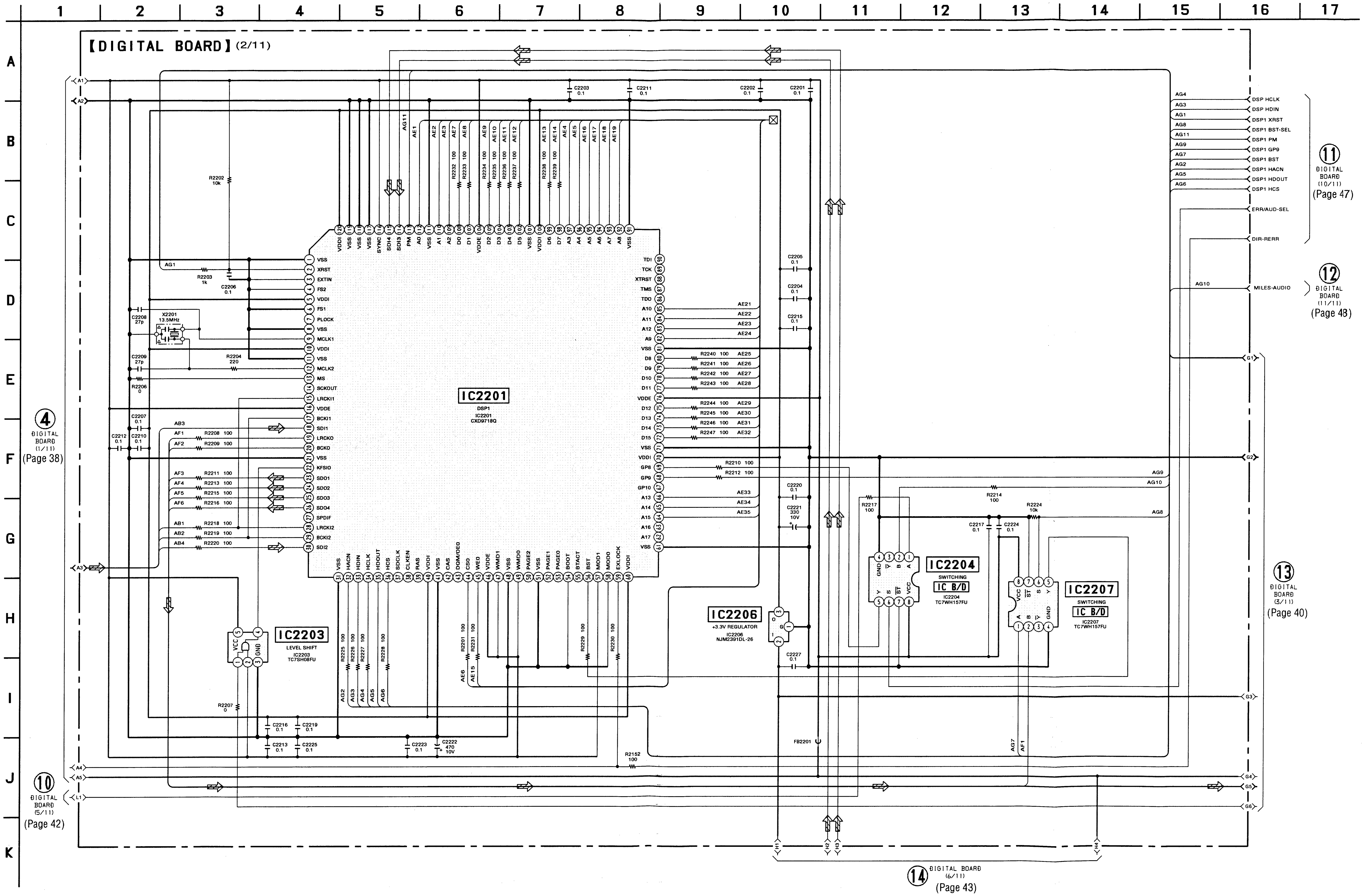
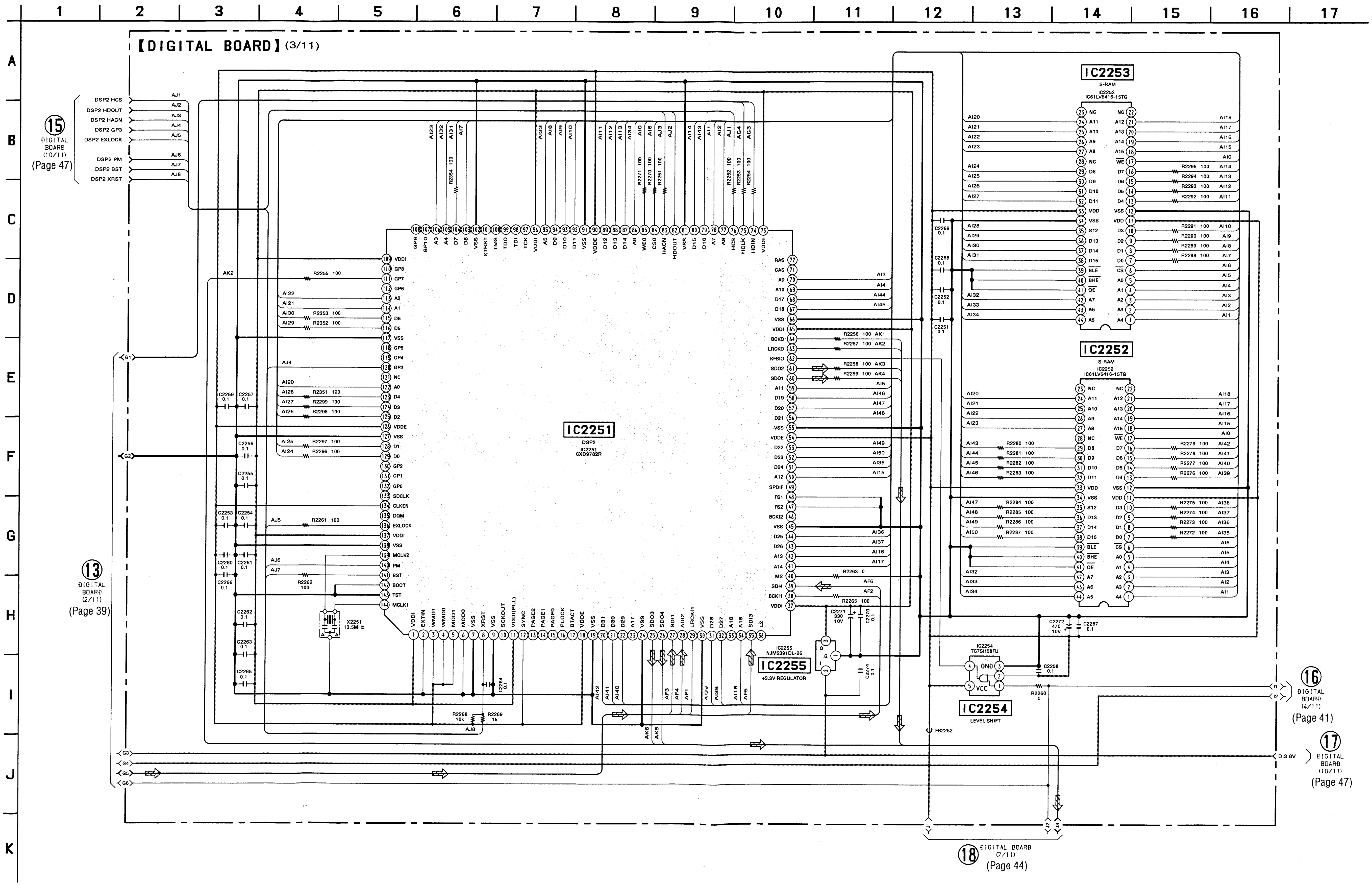
G
H
I
J
K
L
【DIGITAL BOARD】(1/11)
IC2081
OPTICAL TRANSCEIVER
IC2081 TOTX141L
VIDEO 1 OUT
IC2089
TC7S08FU
R2081 100
R2082 100
C2081 0.1
IC2089
SWITCHING
IC2082
OPTICAL RECEIVER
IC2082 TORX141L
VIDEO 1 IN
C2084 0.1
IC2084
OPTICAL RECEIVER
IC2084 TORX141L
LD IN
C2087 0.1
C2083 470 10V
C2082 0.1
IC2085
OPTICAL RECEIVER
IC2085 TORX141L
DVD IN
C2089 0.1
IC2093
INPUT SELECT
IC B/D
IC2093 TC74HC151AF
R2085 100
R2086 100
R2088 100
R2090 100
R2087 100
AD1
DIGITAL OPTICAL
IC2086
OPTICAL RECEIVER
IC2086 TORX141L
TV/SAT IN
C2090 0.1
IC2083
OPTICAL TRANSCEIVER
IC2083 TOTX141L
MD/DAT OUT
C2085 0.1
IC2090
TC7S08FU
IC2090
SWITCHING
R2083 100
R2084 100
R2089 100
IC2087
OPTICAL RECEIVER
IC2087 TORX141L
MD/DAT IN
C2091 0.1
C2086 0.1
C2088 0.1
C2115 0.1
IC2088
OPTICAL RECEIVER
IC2088 TORX141L
CD/SACD IN
C2092 0.1
FB2081
AA7
AA6
IC2451
DIGITAL INPUT/OUTPUT CONTROL
IC B/D
IC2451 TC74HC595AF
R2452 100
R2451 10k
C2452 10 50V
C2451 0.1
R2113 10k
FB2451
IC2095
INPUT SELECT
IC B/D
IC2095 TC7WH157FU
R2112 10k
FB2202
C2454 100p
R2453 100
R2455 1k
IC2210
BUFFER
IC B/D
IC2210 TC74VHC393FT
R2310 100
R2308 100
C2453 0.1
C2229 0.1
R2454 1k
R2264 100
R2250 10k
IC2209
SWITCHING
IC B/D
IC2209 TC7WH157FU
C2214 0.1
C2228 0.1
R2205 100
R2248 100
AB4
AB1
AD5
AC1
R2249 10k
R2131 1M
C2131 470p
D2121 1SS355
R2133 1k
IC2205
CLOCK SELECT
IC B/D
IC2205 TC74HC153AF
R2223 100
R2221 100
R2222 100
R2300 10k
C2226 0.1
C2218 10 50V
AC2
AB2
AD4
AC3
AB3
IC2208
DIGITAL AUDIO SELECT
IC B/D
IC2208 TC74HC153AF
R2304 10k
AD3
AC4
IC2211
TC7S00FU
IC2211
SWITCHING
R2314 100
R2313 100
D2201 1SS355
R2315 1k
PCM-SEL
DIR-DATAO
③ DIGITAL BOARD (10/11) (Page 47)
A1
A2
A3
A4
A5
④ DIGITAL BOARD (2/11) (Page 39)
F1
F2
F3
⑤ DIGITAL BOARD (8/11) (Page 45)
B1
B2
⑥ DIGITAL BOARD (4/11) (Page 41)
TRX-3.3V
D3.3GND
FR-D IN
FSRATE
D-595LAT1
① DIGITAL BOARD (10/11) (Page 47)
MD/V2
COM1-CLK
COM1-DATA
D-595OE
② DIGITAL BOARD (9/11) (Page 46)
C1
C2
C3
C4
C5
C6
C7
C8
C9
D1
E1
E2
E3
⑦ DIGITAL BOARD (5/11) (Page 42)
⑧ DIGITAL BOARD (6/11) (Page 43)
⑨ DIGITAL BOARD (7/11) (Page 44)

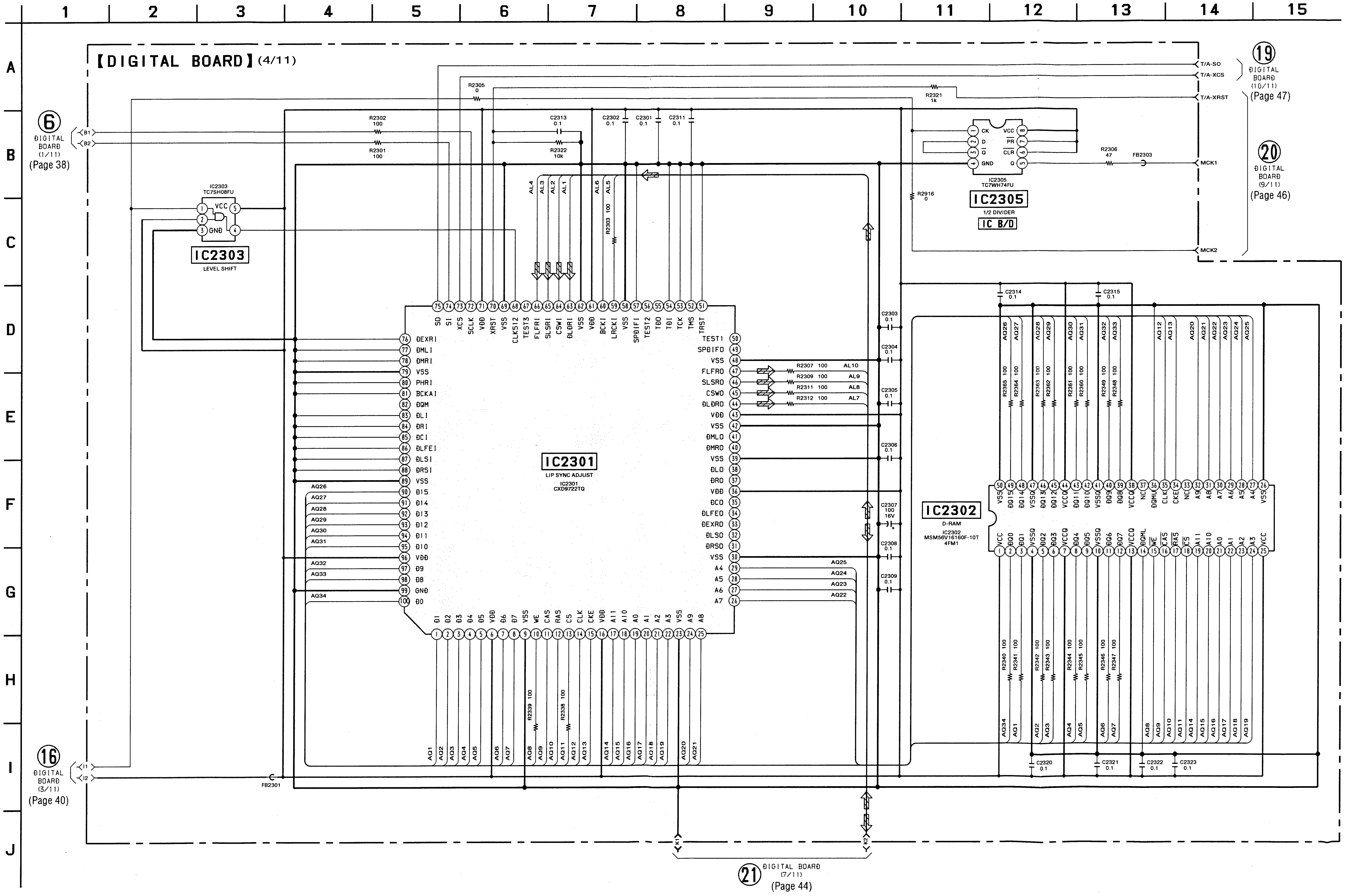
6-17. SCHEMATIC DIAGRAM – DIGITAL Board (2/11) –


【DIGITAL BOARD】(2/11)
IC2201
DSP1
IC2201
CXD9718Q
IC2203
LEVEL SHIFT
IC2203
TC7SH08FU
IC2206
+3.3V REGULATOR
IC2206
NJM2391DL-26
IC2204
SWITCHING
IC B/D
IC2204
TC7WH157FU
IC2207
SWITCHING
IC B/D
IC2207
TC7WH157FU
X2201
13.5MHz
FB2201
DSP HCLK
DSP HDIN
DSP1 XRST
DSP1 BST-SEL
DSP1 PM
DSP1 GP9
DSP1 BST
DSP1 HACN
DSP1 HDOUT
DSP1 HCS
ERR/AUD-SEL
DIR-RERR
MILES-AUDIO
⑪ DIGITAL BOARD (10/11) (Page 47)
⑫ DIGITAL BOARD (11/11) (Page 48)
⑬ DIGITAL BOARD (3/11) (Page 40)
④ DIGITAL BOARD (1/11) (Page 38)
⑩ DIGITAL BOARD (5/11) (Page 42)
⑭ DIGITAL BOARD (6/11) (Page 43)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
A B C D E F G H I J K

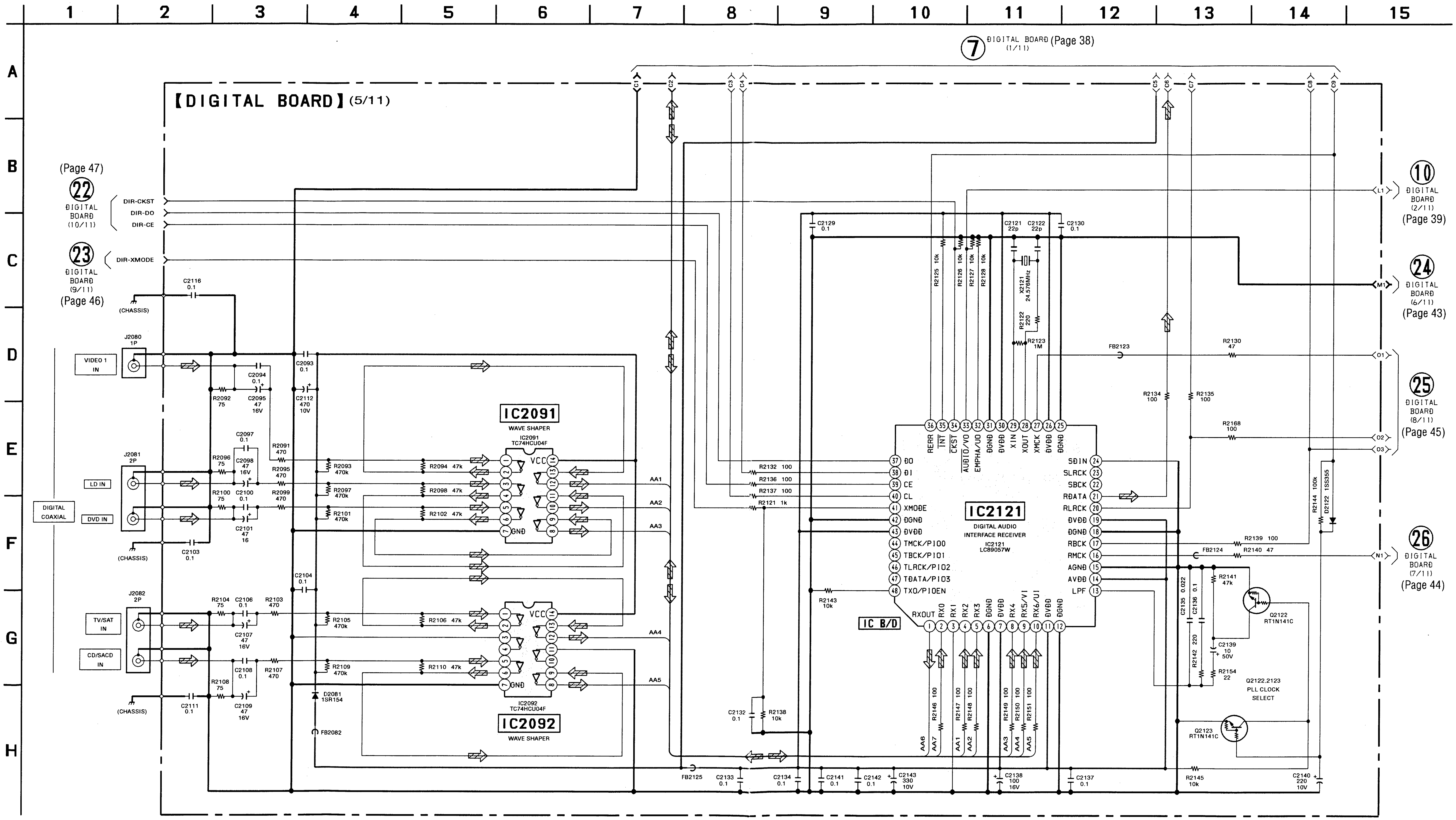
6-18. SCHEMATIC DIAGRAM – DIGITAL Board (3/11) –


[DIGITAL BOARD] (3/11)
DSP2 HCS
DSP2 HDOUT
DSP2 HACN
DSP2 GP3
DSP2 EXLOCK
DSP2 PM
DSP2 BST
DSP2 XRST
⑮ DIGITAL BOARD (10/11) (Page 47)
⑬ DIGITAL BOARD (2/11) (Page 39)
IC2251 DSP2 IC2251 CXD9782R
IC2253 S-RAM IC2253 IC61LV6416-15TG
IC2252 S-RAM IC2252 IC61LV6416-15TG
IC2255 NJM2391DL-26 +3.3V REGULATOR
IC2254 TC7SH08FU LEVEL SHIFT
X2251 13.5MHz
FB2252
D.3.8V
⑯ DIGITAL BOARD (4/11) (Page 41)
⑰ DIGITAL BOARD (10/11) (Page 47)
⑱ DIGITAL BOARD (7/11) (Page 44)

6-19. SCHEMATIC DIAGRAM – DIGITAL Board (4/11) –


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J
【DIGITAL BOARD】(4/11)
⑥ DIGITAL BOARD (1/11) (Page 38)
B1
B2
⑯ DIGITAL BOARD (3/11) (Page 40)
I1
I2
FB2301
⑲ DIGITAL BOARD (10/11) (Page 47)
T/A-SO
T/A-XCS
T/A-XRST
⑳ DIGITAL BOARD (9/11) (Page 46)
MCK1
MCK2
㉑ DIGITAL BOARD (7/11) (Page 44)
K1
K2
IC2303 TC7SH08FU
IC2303
LEVEL SHIFT
VCC
GND
R2305 0
R2302 100
R2301 100
C2313 0.1
R2322 10k
C2302 0.1
C2301 0.1
C2311 0.1
R2321 1k
R2916 0
IC2305 TC7WH74FU
IC2305
1/2 DIVIDER
IC B/D
CK
D
Q̄
GND
VCC
PR
CLR
Q
R2306 47
FB2303
AL4 AL3 AL2 AL1 AL6 AL5
R2303 100
IC2301
LIP SYNC ADJUST
IC2301 CXD9722TQ
SO SI XCS SCLK VDD XRST VSS CLK512 TEST3 FLFRI SLSRI CSWI DLDRI VSS VDD BCKI LRCKI VSS SPDIFI TEST2 TDO TDI TCK TMS TRST
DEXRI DMLI DMRI VSS PHRI BCKAI DQM DLI DRI DCI DLFEI DLSI DRSI VSS D15 D14 D13 D12 D11 D10 VDD D9 D8 GND D0
TEST1 SPDIFO VSS FLFRO SLSRO CSWO DLDRO VDD VSS DMLO DMRO VSS DLO DRO VDD DCO DLFEO DEXRO DLSO DRSO VSS A4 A5 A6 A7
D1 D2 D3 D4 D5 VDD D6 D7 VSS WE CAS RAS CS CLK CKE VDD A11 A10 A0 A1 A2 A3 VSS A9 A8
R2307 100 AL10
R2309 100 AL9
R2311 100 AL8
R2312 100 AL7
C2303 0.1
C2304 0.1
C2305 0.1
C2306 0.1
C2307 100 16V
C2308 0.1
C2309 0.1
AQ25 AQ24 AQ23 AQ22
AQ26 AQ27 AQ28 AQ29 AQ30 AQ31 AQ32 AQ33 AQ34
AQ1 AQ2 AQ3 AQ4 AQ5 AQ6 AQ7 AQ8 AQ9 AQ10 AQ11 AQ12 AQ13 AQ14 AQ15 AQ16 AQ17 AQ18 AQ19 AQ20 AQ21
R2339 100
R2338 100
C2314 0.1
C2315 0.1
R2365 100 R2364 100 R2363 100 R2362 100 R2361 100 R2360 100 R2349 100 R2348 100
IC2302
D-RAM
IC2302 MSM56V16160F-10T 4FM1
VSS DQ15 DQ14 VSSQ DQ13 DQ12 VCCQ DQ11 DQ10 VSSQ DQ9 DQ8 VCCQ NC DQMU CLK CKE NC A9 A8 A7 A6 A5 A4 VSS
VCC DQ0 DQ1 VSSQ DQ2 DQ3 VCCQ DQ4 DQ5 VSSQ DQ6 DQ7 VCCQ DQML WE CAS RAS CS A11 A10 A0 A1 A2 A3 VCC
R2340 100 R2341 100 R2342 100 R2343 100 R2344 100 R2345 100 R2346 100 R2347 100
C2320 0.1
C2321 0.1
C2322 0.1
C2323 0.1

6-20. SCHEMATIC DIAGRAM – DIGITAL Board (5/11) –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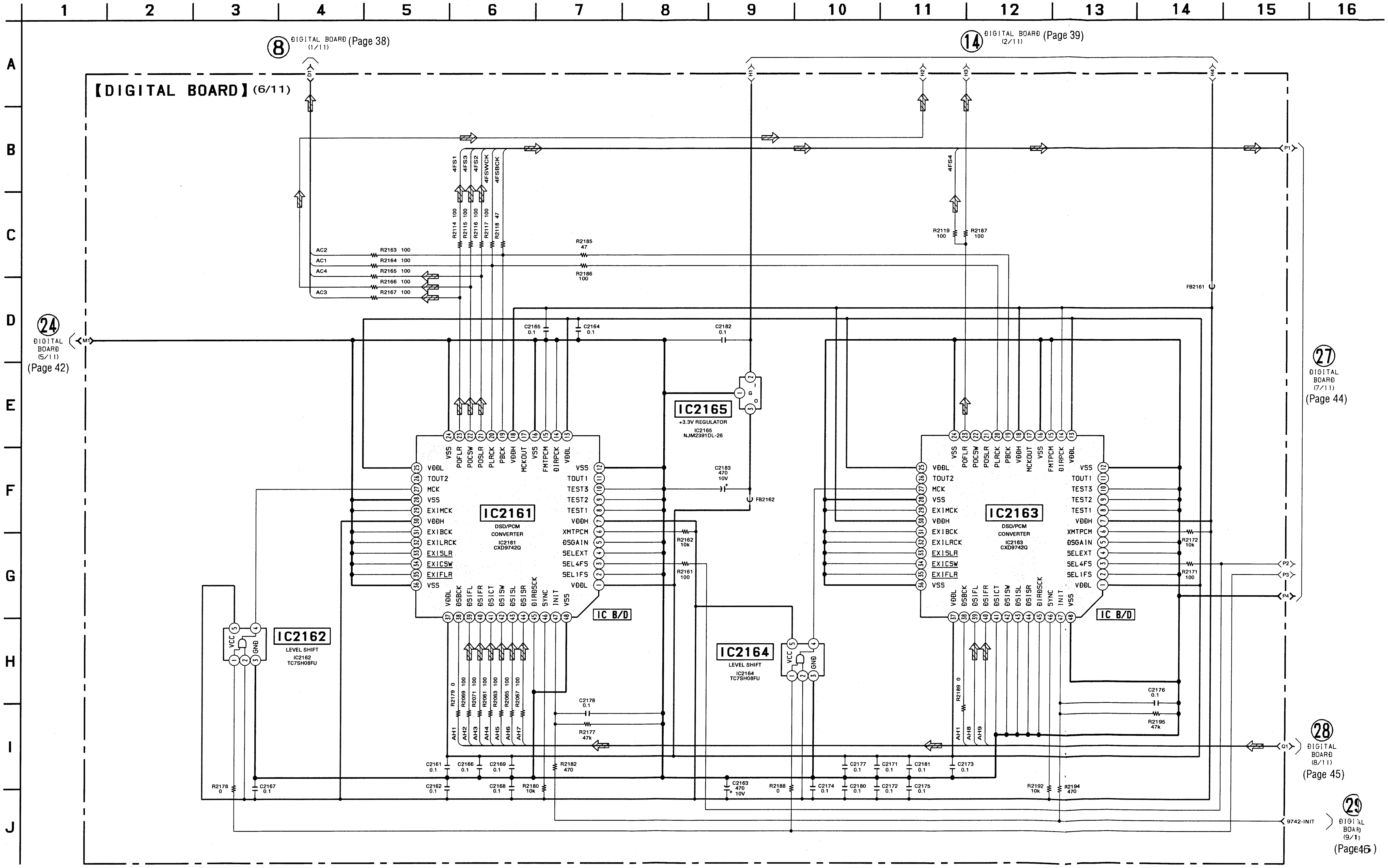
【DIGITAL BOARD】(5/11)
⑦ DIGITAL BOARD (1/11) (Page 38)
(Page 47)
㉒ DIGITAL BOARD (10/11)
DIR-CKST
DIR-DO
DIR-CE
㉓ DIGITAL BOARD (9/11)
(Page 46)
DIR-XMODE
C2116 0.1
(CHASSIS)
J2080 1P
VIDEO 1 IN
J2081 2P
LD IN
DVD IN
DIGITAL COAXIAL
J2082 2P
TV/SAT IN
CD/SACD IN
C2093 0.1
C2094 0.1
C2095 47 16V
R2092 75
C2112 470 10V
C2097 0.1
C2098 47 16V
R2096 75
R2091 470
R2095 470
R2099 470
R2100 75
C2100 0.1
C2101 47 16
C2103 0.1
R2093 470k
R2097 470k
R2101 470k
R2094 47k
R2098 47k
R2102 47k
IC2091
WAVE SHAPER
IC2091 TC74HCU04F
VCC
GND
C2104 0.1
R2104 75
C2106 0.1
R2103 470
C2107 47 16V
R2105 470k
R2106 47k
R2108 75
C2108 0.1
R2107 470
C2109 47 16V
R2109 470k
R2110 47k
C2111 0.1
D2081 1SR154
FB2082
IC2092 TC74HCU04F
IC2092
WAVE SHAPER
AA1
AA2
AA3
AA4
AA5
C1
C2
C3
C4
C5
C6
C7
C8
C9
C2129 0.1
R2125 10k
R2126 10k
R2127 10k
R2128 10k
C2121 22p
C2122 22p
C2130 0.1
X2121 24.576MHz
R2122 220
R2123 1M
FB2123
R2130 47
R2134 100
R2135 100
R2168 100
R2132 100
R2136 100
R2137 100
R2121 1k
RERR
INT
CKST
AUDIO/VO
EMPHA/UO
DGND
DVDD
XIN
XOUT
XMCK
DVDD
DGND
DO
DI
CE
CL
XMODE
DGND
DVDD
TMCK/PIO0
TBCK/PIO1
TLRCK/PIO2
TDATA/PIO3
TXO/PIOEN
SDIN
SLRCK
SBCK
RDATA
RLRCK
DVDD
DGND
RBCK
RMCK
AGND
AVDD
LPF
IC2121
DIGITAL AUDIO INTERFACE RECEIVER
IC2121 LC89057W
IC B/D
RXOUT
RXO
RX1
RX2
RX3
DGND
DVDD
RX4
RX5/VI
RX6/UI
DVDD
DGND
R2143 10k
R2146 100
R2147 100
R2148 100
R2149 100
R2150 100
R2151 100
AA6
AA7
AA1
AA2
AA3
AA4
AA5
C2132 0.1
R2138 10k
FB2125
C2133 0.1
C2134 0.1
C2141 0.1
C2142 0.1
C2143 330 10V
C2138 100 16V
C2137 0.1
R2145 10k
C2140 220 10V
FB2124
R2139 100
R2140 47
R2144 100k
D2122 1SS355
C2135 0.022
C2136 0.1
R2141 47k
Q2122 RT1N141C
R2142 220
C2139 10 50V
R2154 22
Q2122,2123 PLL CLOCK SELECT
Q2123 RT1N141C
L1
M1
O1
O2
O3
N1
⑩ DIGITAL BOARD (2/11) (Page 39)
㉔ DIGITAL BOARD (6/11) (Page 43)
㉕ DIGITAL BOARD (8/11) (Page 45)
㉖ DIGITAL BOARD (7/11) (Page 44)

6-21. SCHEMATIC DIAGRAM – DIGITAL Board (6/11) –


[DIGITAL BOARD] (6/11)
⑧ DIGITAL BOARD (1/11) (Page 38)
⑭ DIGITAL BOARD (2/11) (Page 39)
㉔ DIGITAL BOARD (5/11) (Page 42)
㉗ DIGITAL BOARD (7/11) (Page 44)
㉘ DIGITAL BOARD (8/11) (Page 45)
㉙ DIGITAL BOARD (9/11) (Page46)
IC2161 DSD/PCM CONVERTER IC2161 CXD9742Q
IC2163 DSD/PCM CONVERTER IC2163 CXD9742Q
IC2162 LEVEL SHIFT IC2162 TC7SH08FU
IC2164 LEVEL SHIFT IC2164 TC7SH08FU
IC2165 +3.3V REGULATOR IC2165 NJM2391DL-26
IC B/D
4FS1
4FS3
4FS2
4FSWCK
4FSBCK
4FS4
AC1
AC2
AC3
AC4
AH1
AH2
AH3
AH4
AH5
AH6
AH7
AH8
AH9
VSS
PDFLR
PDCSW
PDSLR
PLRCK
PBCK
VDDH
MCKOUT
FMTPCM
DIRPCK
VDDL
TOUT2
MCK
EXIMCK
EXIBCK
EXILRCK
EXISLR
EXICSW
EXIFLR
TOUT1
TEST3
TEST2
TEST1
XMTPCM
DSGAIN
SELEXT
SEL4FS
SEL1FS
DSBCK
DSIFL
DSIFR
DSICT
DSISW
DSISL
DSISR
DIRBSCK
SYNC
INIT
9742-INIT
R2114 100
R2115 100
R2116 100
R2117 100
R2118 47
R2119 100
R2187 100
R2163 100
R2164 100
R2165 100
R2166 100
R2167 100
R2185 47
R2186 100
R2161 100
R2162 10k
R2171 100
R2172 10k
R2177 47k
R2178 0
R2179 0
R2180 10k
R2182 470
R2188 0
R2189 0
R2192 10k
R2194 470
R2195 47k
R2061 100
R2063 100
R2065 100
R2067 100
R2069 100
R2071 100
C2161 0.1
C2162 0.1
C2163 470 10V
C2164 0.1
C2165 0.1
C2166 0.1
C2167 0.1
C2168 0.1
C2169 0.1
C2171 0.1
C2172 0.1
C2173 0.1
C2174 0.1
C2175 0.1
C2176 0.1
C2177 0.1
C2178 0.1
C2180 0.1
C2181 0.1
C2182 0.1
C2183 470 10V
FB2161
FB2162
VCC
GND
I G O
D1
H1
H2
H3
H4
M1
P1
P2
P3
P4
Q1
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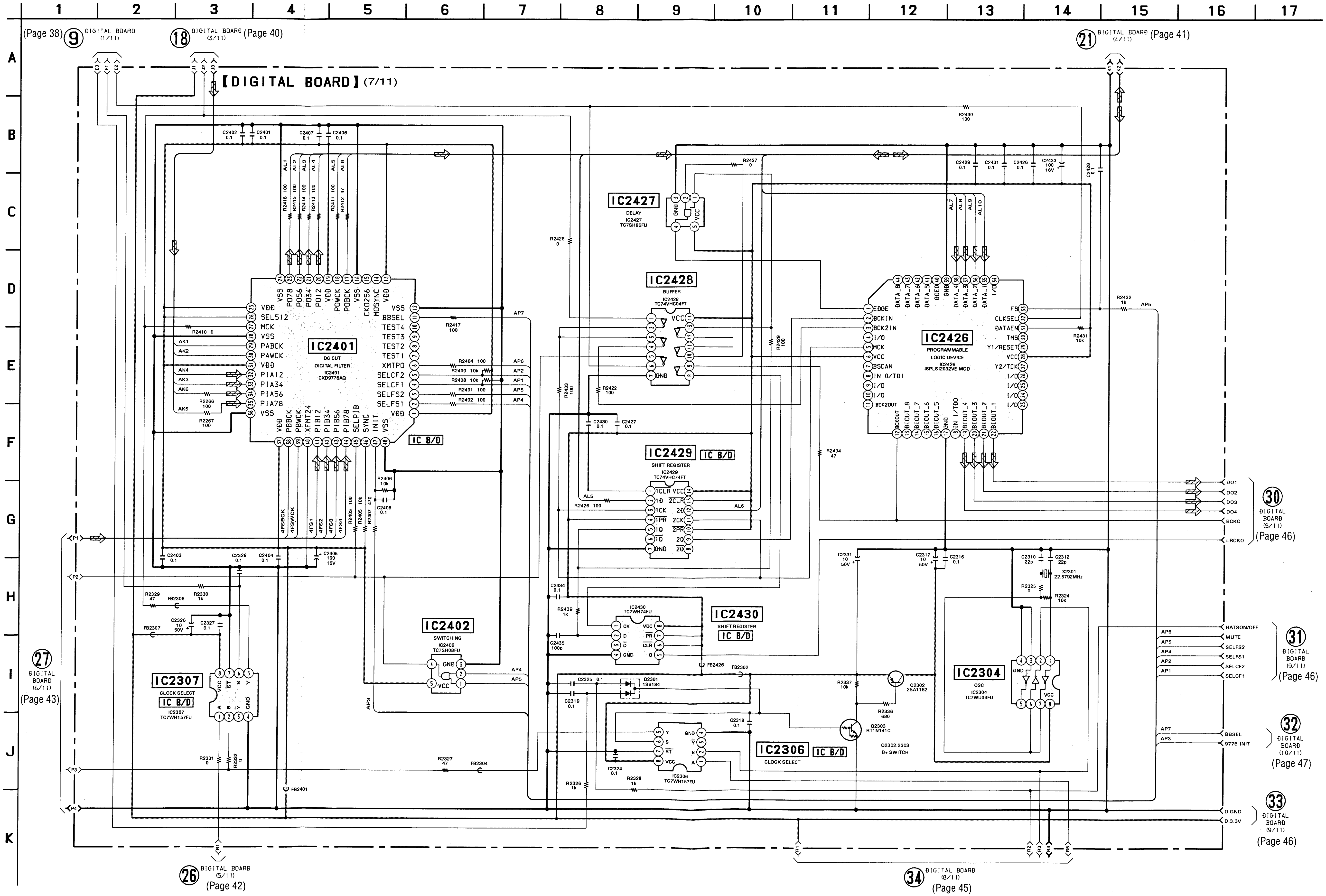
6-22. SCHEMATIC DIAGRAM – DIGITAL Board (7/11) –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(Page 38) ⑨ DIGITAL BOARD (1/11)
⑱ DIGITAL BOARD (3/11) (Page 40)
㉑ DIGITAL BOARD (4/11) (Page 41)
【DIGITAL BOARD】(7/11)
IC2401
DC CUT DIGITAL FILTER
IC2401 CXD9776AQ
VDD
SEL512
MCK
VSS
PABCK
PAWCK
PIA12
PIA34
PIA56
PIA78
PO78
PO56
PO34
PO12
POWCK
POBCK
CK0256
MOSYNC
BBSEL
TEST4
TEST3
TEST2
TEST1
XMTPO
SELCF2
SELCF1
SELFS2
SELFS1
PBBCK
PBWCK
XFMT24
PIB12
PIB34
PIB56
PIB78
SELPIB
SYNC
INIT
IC B/D
IC2427
DELAY
IC2427 TC7SH86FU
IC2428
BUFFER
IC2428 TC74VHC04FT
IC2429
SHIFT REGISTER
IC2429 TC74VHC74FT
1CLR
1D
1CK
1PR
1Q
2CLR
2D
2CK
2PR
2Q
IC2426
PROGRAMMABLE LOGIC DEVICE
IC2426 ISPLSI2032VE-MOD
EDGE
BCKIN
BCK2IN
I/O
BSCAN
IN 0/TDI
BCK2OUT
FS
CLKSEL
DATAEN
TMS
Y1/RESET
Y2/TCK
DATA_8
DATA_7
DATA_6
DATA_5
GOE0
DATA_4
DATA_3
DATA_2
DATA_1
BCKOUT
BIOUT_8
BIOUT_7
BIOUT_6
BIOUT_5
IN 1/TDO
BIOUT_4
BIOUT_3
BIOUT_2
BIOUT_1
IC2402
SWITCHING
IC2402 TC7SH08FU
IC2430
SHIFT REGISTER
IC2430 TC7WH74FU
IC2307
CLOCK SELECT
IC2307 TC7WH157FU
IC2306
CLOCK SELECT
IC2306 TC7WH157FU
IC2304
OSC
IC2304 TC7WU04FU
Q2302 2SA1162
Q2303 RT1N141C
Q2302,2303 B+ SWITCH
D2301 1SS184
X2301 22.5792MHz
AL1
AL2
AL3
AL4
AL5
AL6
AL7
AL8
AL9
AL10
AK1
AK2
AK3
AK4
AK5
AK6
AP1
AP2
AP3
AP4
AP5
AP6
AP7
4FS0BCK
4FSWCK
4FS1
4FS2
4FS3
4FS4
DO1
DO2
DO3
DO4
BCKO
LRCKO
㉚ DIGITAL BOARD (9/11) (Page 46)
HATSON/OFF
MUTE
SELFS2
SELFS1
SELCF2
SELCF1
㉛ DIGITAL BOARD (9/11) (Page 46)
BBSEL
9776-INIT
㉜ DIGITAL BOARD (10/11) (Page 47)
D.GND
D.3.3V
㉝ DIGITAL BOARD (9/11) (Page 46)
㉗ DIGITAL BOARD (6/11) (Page 43)
㉖ DIGITAL BOARD (5/11) (Page 42)
㉞ DIGITAL BOARD (8/11) (Page 45)
P1
P2
P3
P4
FB2306
FB2307
FB2401
FB2304
FB2426
FB2302

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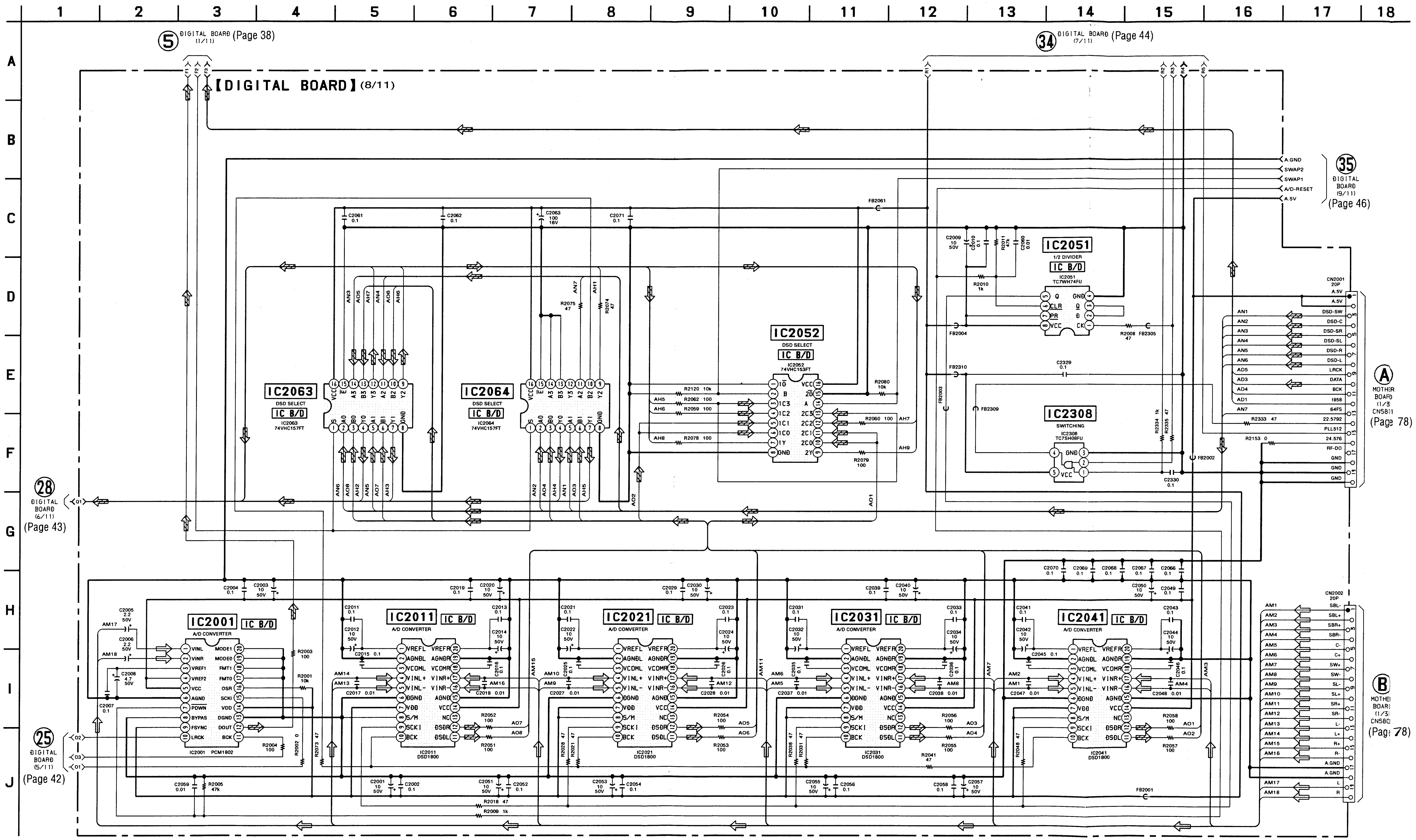
6-23. SCHEMATIC DIAGRAM – DIGITAL Board (8/11) –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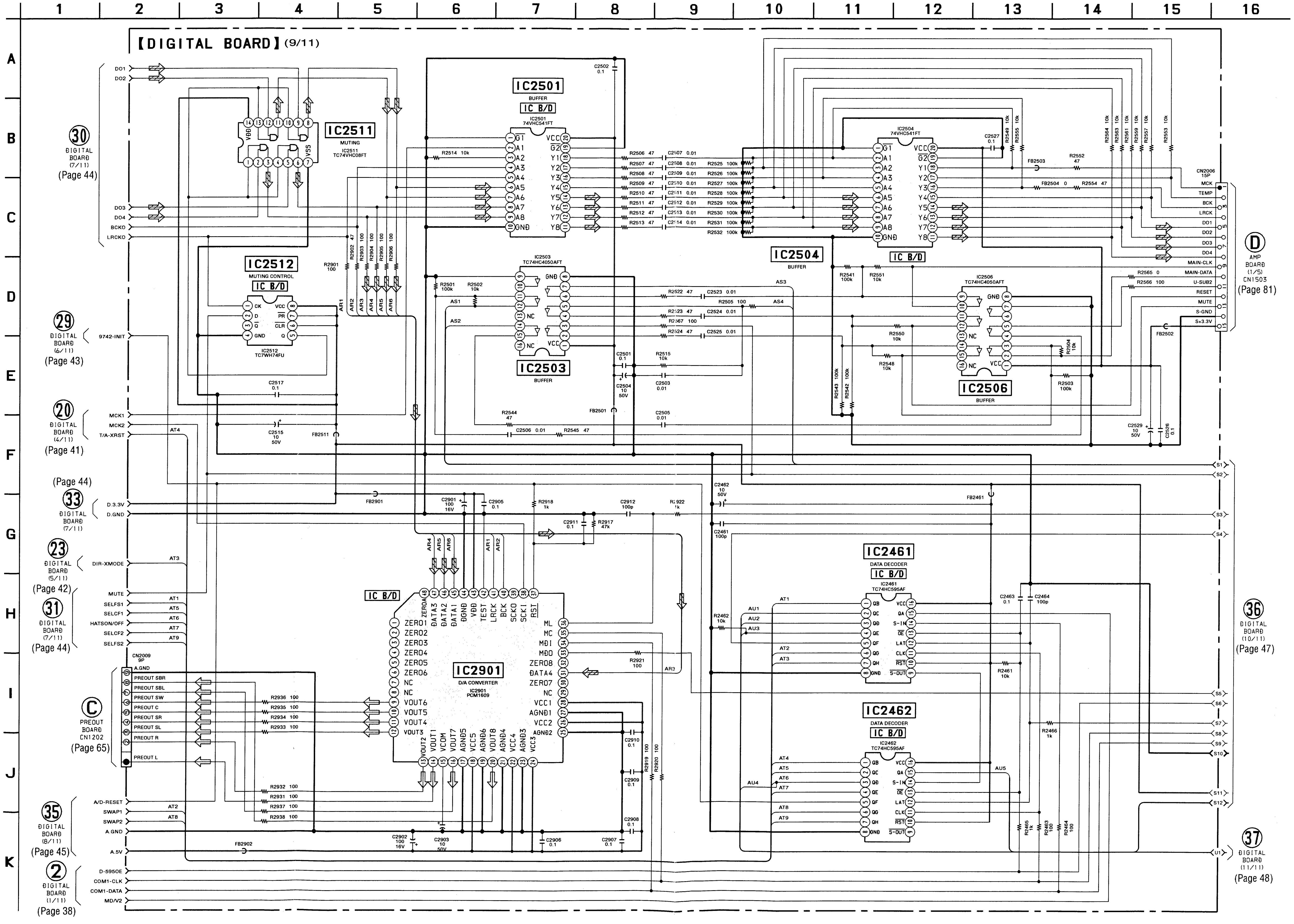
G
H
I
J
⑤ DIGITAL BOARD (1/11) (Page 38)
㉞ DIGITAL BOARD (7/11) (Page 44)
【DIGITAL BOARD】(8/11)
㉟ DIGITAL BOARD (9/11) (Page 46)
A.GND
SWAP2
SWAP1
A/D-RESET
A.5V
㉘ DIGITAL BOARD (6/11) (Page 43)
㉕ DIGITAL BOARD (5/11) (Page 42)
Ⓐ MOTHER BOARD (1/3) CN5811 (Page 78)
Ⓑ MOTHER BOARD (1/3) CN5801 (Page 78)
IC2063
DSD SELECT
IC B/D
IC2063 74VHC157FT
IC2064
DSD SELECT
IC B/D
IC2064 74VHC157FT
IC2052
DSD SELECT
IC B/D
IC2052 74VHC153FT
IC2051
1/2 DIVIDER
IC B/D
IC2051 TC7WH74FU
IC2308
SWITCHING
IC2308 TC7SH08FU
IC2001
IC B/D
A/D CONVERTER
IC2001 PCM1802
IC2011
IC B/D
A/D CONVERTER
IC2011 DSD1800
IC2021
IC B/D
A/D CONVERTER
IC2021 DSD1800
IC2031
IC B/D
A/D CONVERTER
IC2031 DSD1800
IC2041
IC B/D
A/D CONVERTER
IC2041 DSD1800
CN2001 20P
A.5V
DSD-SW
DSD-C
DSD-SR
DSD-SL
DSD-R
DSD-L
LRCK
DATA
BCK
1958
64FS
22.5792
PLL512
24.576
RF-DO
GND
GND
GND
CN2002 20P
SBL-
SBL+
SBR+
SBR-
C-
C+
SW+
SW-
SL-
SL+
SR+
SR-
L-
L+
R+
R-
A.GND
A.GND
L
R
FB2061
FB2004
FB2310
FB2309
FB2002
FB2001
FB2305
FB2003

6-24. SCHEMATIC DIAGRAM – DIGITAL Board (9/11) –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F
G
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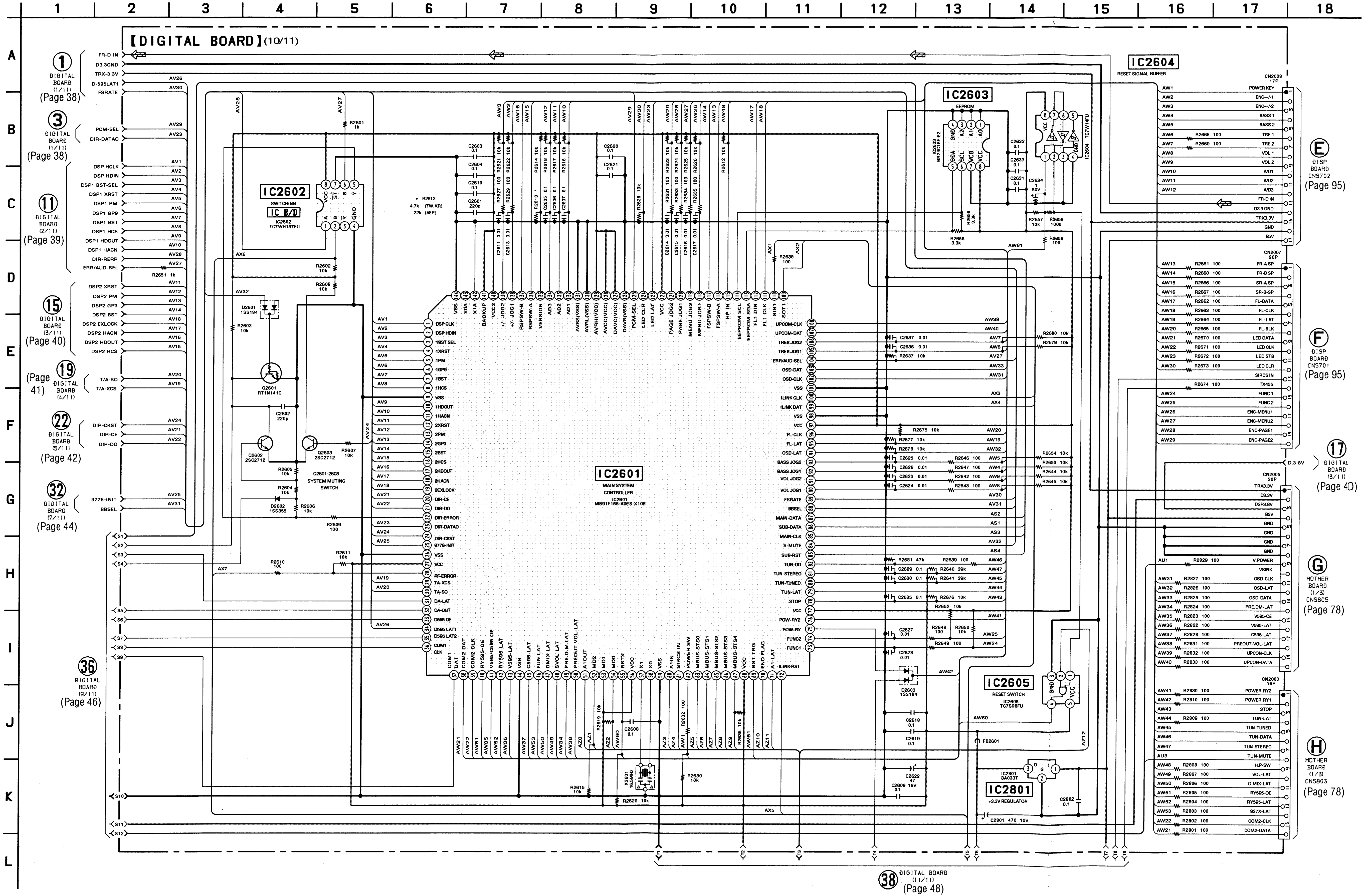
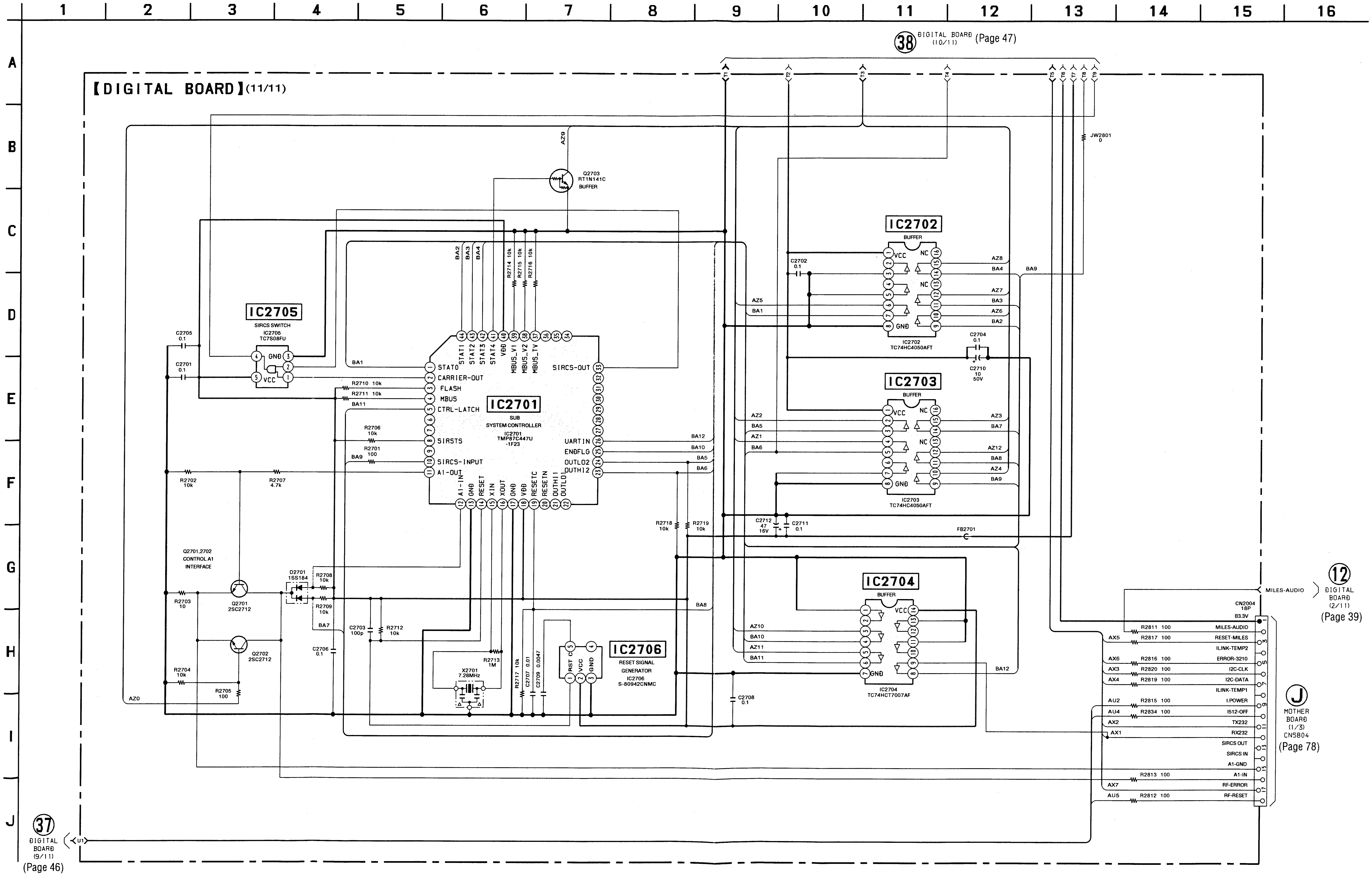
I
J
K
【DIGITAL BOARD】(9/11)
30 DIGITAL BOARD (7/11) (Page 44)
DO1
DO2
DO3
DO4
BCKO
LRCKO
IC2511
MUTING
IC2511 TC74VHC08FT
VDD
VSS
IC2512
MUTING CONTROL
IC B/D
IC2512 TC7WH74FU
CK
D
Q
GND
VCC
PR
CLR
Q
29 DIGITAL BOARD (6/11) (Page 43)
9742-INIT
20 DIGITAL BOARD (4/11) (Page 41)
MCK1
MCK2
T/A-XRST
AT4
C2517 0.1
C2515 10 50V
FB2511
33 DIGITAL BOARD (7/11) (Page 44)
D.3.3V
D.GND
FB2901
23 DIGITAL BOARD (5/11) (Page 42)
DIR-XMODE
AT3
31 DIGITAL BOARD (7/11) (Page 44)
MUTE
SELFS1
SELCF1
HATSON/OFF
SELCF2
SELFS2
AT1
AT5
AT6
AT7
AT9
C PREOUT BOARD CN1202 (Page 65)
CN2009 9P
A.GND
PREOUT SBR
PREOUT SBL
PREOUT SW
PREOUT C
PREOUT SR
PREOUT SL
PREOUT R
PREOUT L
R2936 100
R2935 100
R2934 100
R2933 100
R2932 100
R2931 100
R2937 100
R2938 100
35 DIGITAL BOARD (8/11) (Page 45)
A/D-RESET
SWAP1
SWAP2
A.GND
A.5V
AT2
AT8
FB2902
2 DIGITAL BOARD (1/11) (Page 38)
D-595OE
COM1-CLK
COM1-DATA
MD/V2
IC2501
BUFFER
IC B/D
IC2501 74VHC541FT
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
VCC
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
C2502 0.1
R2514 10k
R2901 100
R2902 47
R2903 100
R2904 100
R2905 100
R2906 100
AR1
AR3
AR4
AR5
AR6
R2501 100k
R2502 10k
AS1
AS2
IC2503 TC74HC4050AFT
IC2503
BUFFER
NC
R2506 47
R2507 47
R2508 47
R2509 47
R2510 47
R2511 47
R2512 47
R2513 47
C2507 0.01
C2508 0.01
C2509 0.01
C2510 0.01
C2511 0.01
C2512 0.01
C2513 0.01
C2514 0.01
R2525 100k
R2526 100k
R2527 100k
R2528 100k
R2529 100k
R2530 100k
R2531 100k
R2532 100k
R2522 47
C2523 0.01
R2505 100
AS3
AS4
R2523 47
C2524 0.01
R2567 100
R2524 47
C2525 0.01
C2501 0.1
C2504 10 50V
R2515 10k
C2503 0.01
FB2501
C2505 0.01
R2544 47
C2506 0.01
R2545 47
IC2504
BUFFER
IC2504 74VHC541FT
C2527 0.1
R2549 10k
R2555 10k
FB2503
R2552 47
FB2504 0
R2554 47
R2564 10k
R2563 10k
R2561 10k
R2559 10k
R2557 10k
R2553 10k
R2541 100k
R2551 10k
IC2506 TC74HC4050AFT
IC2506
BUFFER
R2550 10k
R2548 10k
R2504 10k
R2503 100k
R2543 100k
R2542 100k
R2565 0
R2566 100
FB2502
C2529 10 50V
C2526 0.1
CN2006 15P
MCK
TEMP
BCK
LRCK
DO1
DO2
DO3
DO4
MAIN-CLK
MAIN-DATA
U-SUB2
RESET
MUTE
S-GND
S+3.3V
D AMP BOARD (1/5) CN1503 (Page 81)
C2901 100 16V
C2905 0.1
R2918 1k
C2912 100p
R2922 1k
C2911 0.1
R2917 47k
C2462 10 50V
C2461 100p
FB2461
IC B/D
IC2901
D/A CONVERTER
IC2901 PCM1609
ZEROA
DATA3
DATA2
DATA1
DGND
VDD
TEST
LRCK
BCK
SCKO
SCKI
RST
ZERO1
ZERO2
ZERO3
ZERO4
ZERO5
ZERO6
NC
NC
VOUT6
VOUT5
VOUT4
VOUT3
ML
MC
MDI
MDO
ZERO8
DATA4
ZERO7
NC
VCC1
AGND1
VCC2
AGND2
VOUT2
VOUT1
VCOM
VOUT7
AGND5
VCC5
AGND6
VOUT8
AGND4
VCC4
AGND3
VCC3
R2921 100
AR3
C2910 0.1
C2909 0.1
C2908 0.1
R2919 100
R2920 100
C2902 100 16V
C2903 10 50V
C2906 0.1
C2907 0.1
IC2461
DATA DECODER
IC B/D
IC2461 TC74HC595AF
QB
QC
QD
QE
QF
QG
QH
GND
VCC
QA
S-IN
OE
LAT
CLK
RST
S-OUT
R2462 10k
AU1
AU2
AU3
AT1
AT2
AT3
C2463 0.1
C2464 100p
R2461 10k
IC2462
DATA DECODER
IC B/D
IC2462 TC74HC595AF
AU4
AT4
AT5
AT6
AT7
AT8
AT9
AU5
R2466 1k
R2465 1k
R2463 100
R2464 100
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
U1
36 DIGITAL BOARD (10/11) (Page 47)
37 DIGITAL BOARD (11/11) (Page 48)

6-25. SCHEMATIC DIAGRAM - DIGITAL Board (10/11) -


【DIGITAL BOARD】(10/11)
① DIGITAL BOARD (1/11) (Page 38)
③ DIGITAL BOARD (1/11) (Page 38)
⑪ DIGITAL BOARD (2/11) (Page 39)
⑮ DIGITAL BOARD (3/11) (Page 40)
⑲ DIGITAL BOARD (4/11) (Page 41)
㉒ DIGITAL BOARD (5/11) (Page 42)
㉜ DIGITAL BOARD (7/11) (Page 44)
㊱ DIGITAL BOARD (9/11) (Page 46)
㊳ DIGITAL BOARD (11/11) (Page 48)
⑰ DIGITAL BOARD (3/11) (Page 40)
Ⓔ DISP BOARD CN5702 (Page 95)
Ⓕ DISP BOARD CN5701 (Page 95)
Ⓖ MOTHER BOARD (1/3) CN5805 (Page 78)
Ⓗ MOTHER BOARD (1/3) CN5803 (Page 78)
IC2601 MAIN SYSTEM CONTROLLER IC2601 MB91F155-A9ES-X105
IC2602 SWITCHING IC B/D IC2602 TC7WH157FU
IC2603 EEPROM IC2603 BR24C16F-E2
IC2604 RESET SIGNAL BUFFER IC2604 TC7W14FU
IC2605 RESET SWITCH IC2605 TC7S08FU
IC2801 +3.3V REGULATOR IC2801 BA033T
Q2601 RT1N141C
Q2602 2SC2712
Q2603 2SC2712
Q2601-2603 SYSTEM MUTING SWITCH
D2601 1SS184
D2602 1SS355
D2603 1SS184
X2601 16.5MHz
CN2008 17P
CN2007 20P
CN2005 20P
CN2003 16P
FB2601
* R2613 4.7k (TW,KR) 22k (AEP)

6-26. SCHEMATIC DIAGRAM – DIGITAL Board (11/11) –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16
A
B
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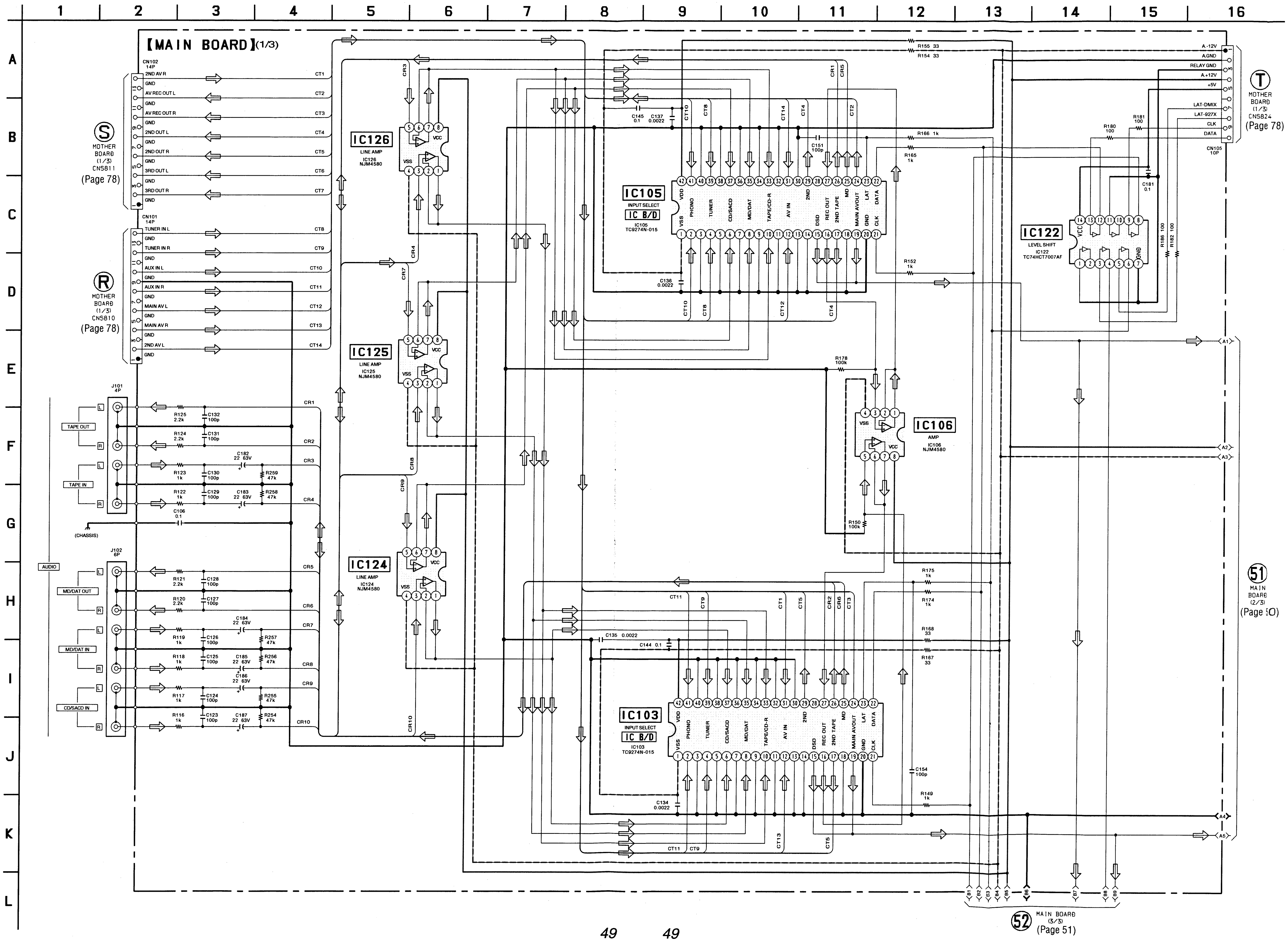
D
E
F
G
H
I
J
【DIGITAL BOARD】(11/11)
38 DIGITAL BOARD (10/11) (Page 47)
T1
T2
T3
T4
T5
T6
T7
T8
T9
JW2801 0
AZ9
Q2703 RT1N141C BUFFER
IC2705
SIRCS SWITCH
IC2705 TC7S08FU
GND
VCC
C2705 0.1
C2701 0.1
IC2701
SUB SYSTEM CONTROLLER
IC2701 TMP87C447U -1F23
BA2
BA3
BA4
R2714 10k
R2715 10k
R2716 10k
STAT1
STAT2
STAT3
STAT4
VDD
MBUS_V1
MBUS_V2
MBUS_TV
STAT0
CARRIER-OUT
FLASH
MBUS
CTRL-LATCH
SIRSTS
SIRCS-INPUT
A1-OUT
SIRCS-OUT
UARTIN
ENDFLG
OUTLO2
OUTHI2
A1-IN
GND
RESET
XIN
XOUT
RESETC
RESETN
OUTHI1
OUTLO1
BA1
R2710 10k
R2711 10k
BA11
R2706 10k
R2701 100
BA9
BA12
BA10
BA5
BA6
R2702 10k
R2707 4.7k
R2718 10k
R2719 10k
Q2701,2702 CONTROL A1 INTERFACE
Q2701 2SC2712
Q2702 2SC2712
R2703 10
R2704 10k
R2705 100
D2701 1SS184
R2708 10k
R2709 10k
BA7
BA8
C2703 100p
R2712 10k
C2706 0.1
X2701 7.28MHz
R2713 1M
R2717 10k
C2707 0.01
C2709 0.0047
IC2706
RESET SIGNAL GENERATOR
IC2706 S-80942CNMC
RST
VCC
GND
AZ0
IC2702
BUFFER
NC
AZ8
BA4
BA9
AZ7
BA3
AZ6
BA2
AZ5
BA1
C2702 0.1
IC2702 TC74HC4050AFT
C2704 0.1
C2710 10 50V
IC2703
BUFFER
AZ2
BA5
AZ1
BA6
AZ3
BA7
AZ12
BA8
AZ4
BA9
IC2703 TC74HC4050AFT
C2712 47 16V
C2711 0.1
FB2701
IC2704
BUFFER
AZ10
BA10
AZ11
BA11
BA12
IC2704 TC74HCT7007AF
C2708 0.1
MILES-AUDIO
12 DIGITAL BOARD (2/11) (Page 39)
CN2004 18P
B3.3V
MILES-AUDIO
RESET-MILES
ILINK-TEMP2
ERROR-3210
I2C-CLK
I2C-DATA
ILINK-TEMP1
I.POWER
I512-OFF
TX232
RX232
SIRCS OUT
SIRCS IN
A1-GND
A1-IN
RF-ERROR
RF-RESET
AX5
AX6
AX3
AX4
AU2
AU4
AX2
AX1
AX7
AU5
R2811 100
R2817 100
R2816 100
R2820 100
R2819 100
R2815 100
R2834 100
R2813 100
R2812 100
J MOTHER BOARD (1/3) CNS804 (Page 78)
37 DIGITAL BOARD (9/11) (Page 46)
U1

6-27. SCHEMATIC DIAGRAM – MAIN Board (1/3) –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A
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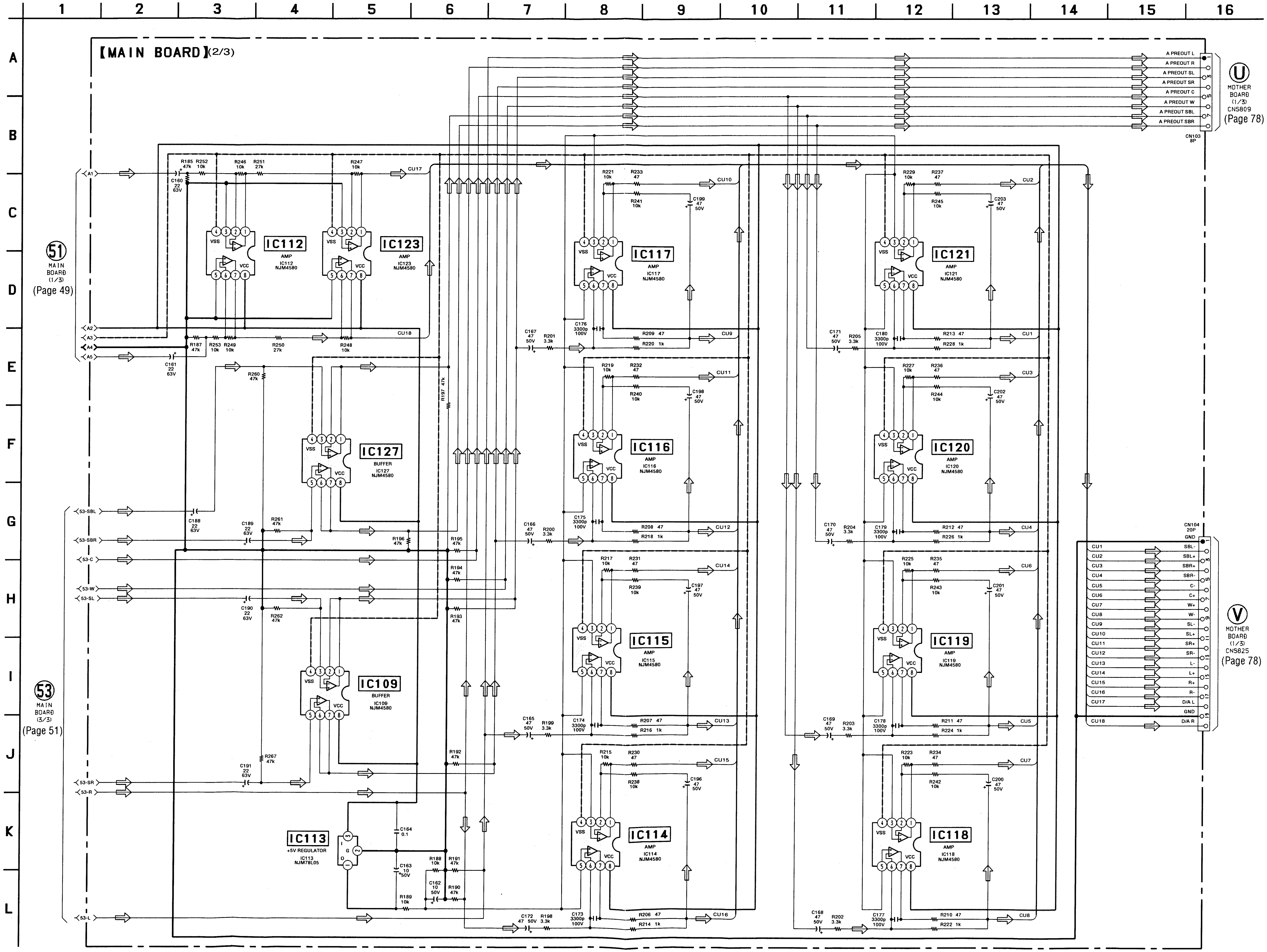
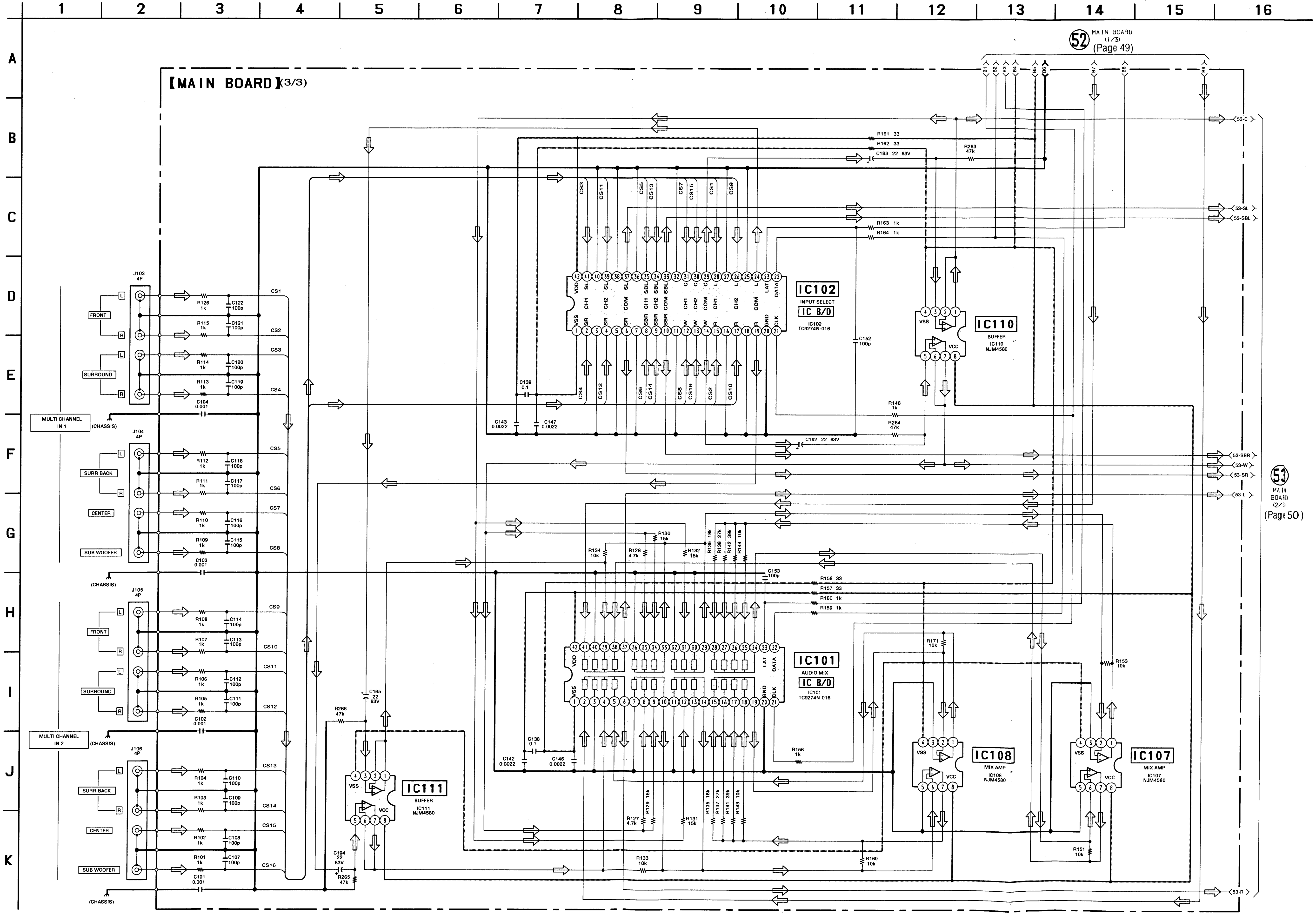
C
D
E
F
G
H
I
J
K
L
【MAIN BOARD】(1/3)
CN102 14P
2ND AV R
GND
AV REC OUT L
AV REC OUT R
2ND OUT L
2ND OUT R
3RD OUT L
3RD OUT R
CT1
CT2
CT3
CT4
CT5
CT6
CT7
S
MOTHER BOARD (1/3) CN5811
(Page 78)
CN101 14P
TUNER IN L
TUNER IN R
AUX IN L
AUX IN R
MAIN AV L
MAIN AV R
2ND AV L
CT8
CT9
CT10
CT11
CT12
CT13
CT14
R
MOTHER BOARD (1/3) CN5810
(Page 78)
J101 4P
TAPE OUT
TAPE IN
R125 2.2k
R124 2.2k
R123 1k
R122 1k
C132 100p
C131 100p
C130 100p
C129 100p
C182 22 63V
C183 22 63V
R259 47k
R258 47k
C106 0.1
(CHASSIS)
J102 6P
AUDIO
MD/DAT OUT
MD/DAT IN
CD/SACD IN
R121 2.2k
R120 2.2k
R119 1k
R118 1k
R117 1k
R116 1k
C128 100p
C127 100p
C126 100p
C125 100p
C124 100p
C123 100p
C184 22 63V
C185 22 63V
C186 22 63V
C187 22 63V
R257 47k
R256 47k
R255 47k
R254 47k
CR1
CR2
CR3
CR4
CR5
CR6
CR7
CR8
CR9
CR10
IC126
LINE AMP
IC126 NJM4580
IC125
LINE AMP
IC125 NJM4580
IC124
LINE AMP
IC124 NJM4580
VCC
VSS
IC105
INPUT SELECT
IC B/D
IC105 TC9274N-015
VDD
PHONO
TUNER
CD/SACD
MD/DAT
TAPE/CD-R
AV IN
2ND
DSD
REC OUT
2ND TAPE
MD
MAIN AVOUT
GND
LAT
CLK
DATA
R155 33
R154 33
C145 0.1
C137 0.0022
C151 100p
R166 1k
R165 1k
R152 1k
C136 0.0022
R178 100k
IC106
AMP
IC106 NJM4580
R150 100k
IC122
LEVEL SHIFT
IC122 TC74HCT7007AF
R180 100
R181 100
C181 0.1
R186 100
R182 100
A-12V
A.GND
RELAY GND
A+12V
+5V
LAT-DMIX
LAT-927X
CLK
DATA
CN105 10P
T
MOTHER BOARD (1/3) CN5824
(Page 78)
A1
A2
A3
A4
A5
51
MAIN BOARD (2/3)
(Page 50)
IC103
INPUT SELECT
IC B/D
IC103 TC9274N-015
C135 0.0022
C144 0.1
C134 0.0022
R175 1k
R174 1k
R168 33
R167 33
C154 100p
R149 1k
B1
B2
B3
B4
B5
B6
B7
B8
B9
52
MAIN BOARD (3/3)
(Page 51)

6-28. SCHEMATIC DIAGRAM – MAIN Board (2/3) –


【MAIN BOARD】(2/3)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K L
IC112 AMP IC112 NJM4580
IC123 AMP IC123 NJM4580
IC127 BUFFER IC127 NJM4580
IC109 BUFFER IC109 NJM4580
IC113 +5V REGULATOR IC113 NJM78L05
IC117 AMP IC117 NJM4580
IC116 AMP IC116 NJM4580
IC115 AMP IC115 NJM4580
IC114 AMP IC114 NJM4580
IC121 AMP IC121 NJM4580
IC120 AMP IC120 NJM4580
IC119 AMP IC119 NJM4580
IC118 AMP IC118 NJM4580
(51) MAIN BOARD (1/3) (Page 49)
(53) MAIN BOARD (3/3) (Page 51)
A1 A2 A3 A4 A5
53-SBL 53-SBR 53-C 53-W 53-SL 53-SR 53-R 53-L
A PREOUT L
A PREOUT R
A PREOUT SL
A PREOUT SR
A PREOUT C
A PREOUT W
A PREOUT SBL
A PREOUT SBR
CN103 8P
Ⓤ MOTHER BOARD (1/3) CNS809 (Page 78)
CN104 20P
GND SBL- SBL+ SBR+ SBR- C- C+ W+ W- SL- SL+ SR+ SR- L- L+ R+ R- D/A L GND D/A R
CU1 CU2 CU3 CU4 CU5 CU6 CU7 CU8 CU9 CU10 CU11 CU12 CU13 CU14 CU15 CU16 CU17 CU18
Ⓥ MOTHER BOARD (1/3) CNS825 (Page 78)
R185 47k
R252 10k
R246 10k
R251 27k
R247 10k
C160 22 63V
R187 47k
R253 10k
R249 10k
R250 27k
R248 10k
C161 22 63V
R260 47k
R197 47k
C188 22 63V
C189 22 63V
R261 47k
R196 47k
R195 47k
R194 47k
C190 22 63V
R262 47k
R193 47k
R267 47k
C191 22 63V
R192 47k
C164 0.1
C163 10 50V
R188 10k
R191 47k
C162 10 50V
R190 47k
R189 10k
R221 10k
R233 47
R241 10k
C199 47 50V
C167 47 50V
R201 3.3k
C176 3300p 100V
R209 47
R220 1k
R219 10k
R232 47
R240 10k
C198 47 50V
C166 47 50V
R200 3.3k
C175 3300p 100V
R208 47
R218 1k
R217 10k
R231 47
R239 10k
C197 47 50V
C165 47 50V
R199 3.3k
C174 3300p 100V
R207 47
R216 1k
R215 10k
R230 47
R238 10k
C196 47 50V
C172 47 50V
R198 3.3k
C173 3300p 100V
R206 47
R214 1k
R229 10k
R237 47
R245 10k
C203 47 50V
C171 47 50V
R205 3.3k
C180 3300p 100V
R213 47
R228 1k
R227 10k
R236 47
R244 10k
C202 47 50V
C170 47 50V
R204 3.3k
C179 3300p 100V
R212 47
R226 1k
R225 10k
R235 47
R243 10k
C201 47 50V
C169 47 50V
R203 3.3k
C178 3300p 100V
R211 47
R224 1k
R223 10k
R234 47
R242 10k
C200 47 50V
C168 47 50V
R202 3.3k
C177 3300p 100V
R210 47
R222 1k
VSS VCC

6-29. SCHEMATIC DIAGRAM – MAIN Board (3/3) –



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A
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C
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G
H
I
J
K
【MAIN BOARD】(3/3)
(52) MAIN BOARD (1/3) (Page 49)
(53) MAIN BOARD (2/3) (Page 50)
53-C
53-SL
53-SBL
53-SBR
53-W
53-SR
53-L
53-R
MULTI CHANNEL IN 1
MULTI CHANNEL IN 2
(CHASSIS)
J103 4P
J104 4P
J105 4P
J106 4P
FRONT
SURROUND
SURR BACK
CENTER
SUB WOOFER
IC102
INPUT SELECT
IC B/D
IC102 TC9274N-016
IC101
AUDIO MIX
IC B/D
IC101 TC9274N-016
IC110
BUFFER
IC110 NJM4580
IC111
BUFFER
IC111 NJM4580
IC108
MIX AMP
IC108 NJM4580
IC107
MIX AMP
IC107 NJM4580
VDD
VSS
VCC
LAT
DATA
GND
CLK
CS1
CS2
CS3
CS4
CS5
CS6
CS7
CS8
CS9
CS10
CS11
CS12
CS13
CS14
CS15
CS16
R161 33
R162 33
C193 22 63V
R263 47k
R163 1k
R164 1k
C152 100p
R148 1k
R264 47k
C192 22 63V
C139 0.1
C143 0.0022
C147 0.0022
R126 1k
C122 100p
R115 1k
C121 100p
R114 1k
C120 100p
R113 1k
C119 100p
C104 0.001
R112 1k
C118 100p
R111 1k
C117 100p
R110 1k
C116 100p
R109 1k
C115 100p
C103 0.001
R108 1k
C114 100p
R107 1k
C113 100p
R106 1k
C112 100p
R105 1k
C111 100p
C102 0.001
R104 1k
C110 100p
R103 1k
C109 100p
R102 1k
C108 100p
R101 1k
C107 100p
C101 0.001
R130 15k
R134 10k
R128 4.7k
R132 15k
R136 18k
R138 27k
R142 39k
R144 10k
C153 100p
R158 33
R157 33
R160 1k
R159 1k
R171 10k
R153 10k
C195 22 63V
R266 47k
C138 0.1
C142 0.0022
C146 0.0022
R156 1k
R127 4.7k
R129 15k
R131 15k
R135 18k
R137 27k
R141 39k
R143 10k
R133 10k
R169 10k
R151 10k
C194 22 63V
R265 47k

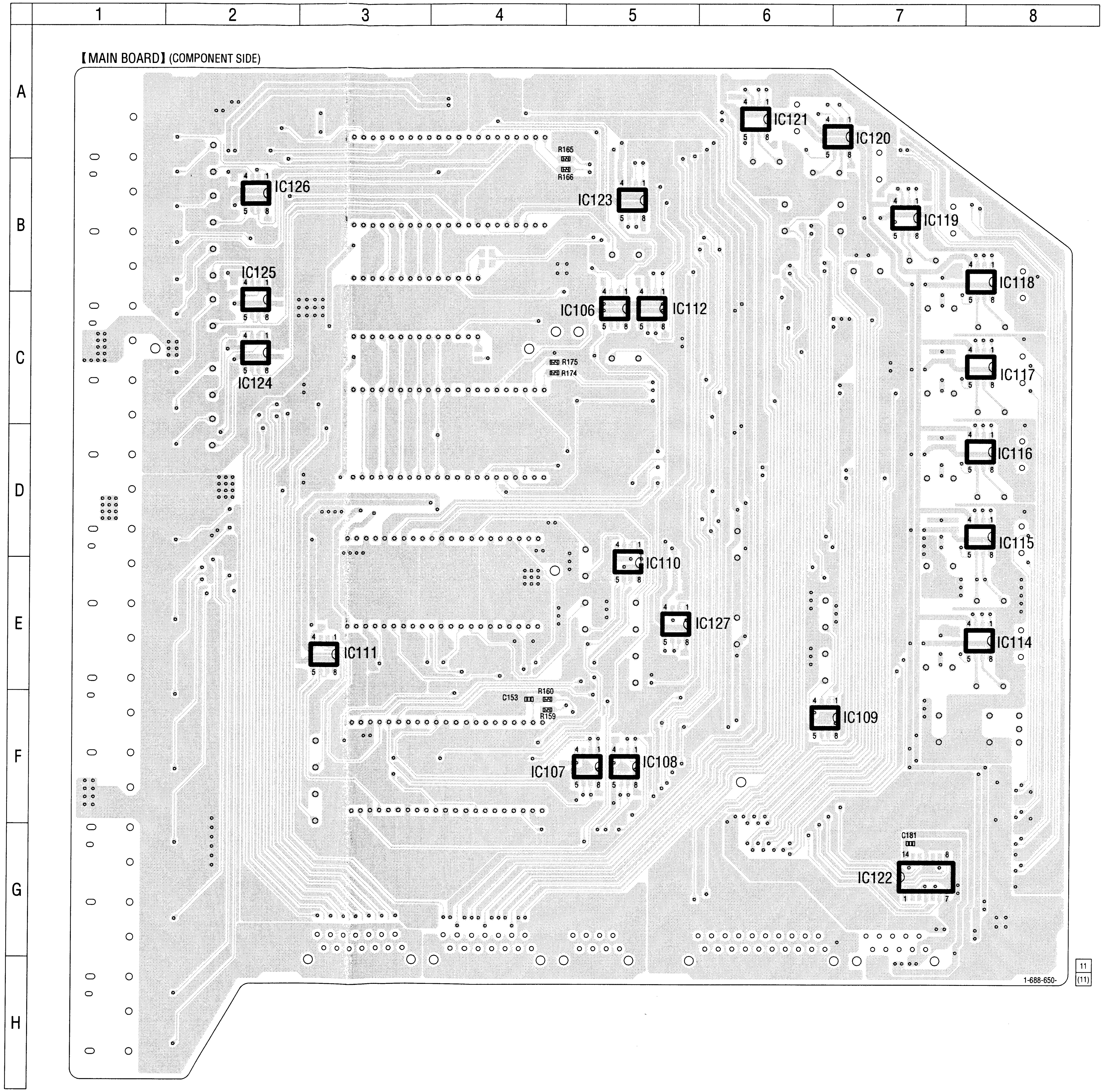
6-30. PRINTED WIRING BOARD – MAIN Board (Component Side) –

- See page 35 for Circuit Boards Location.

LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC106	C-5
IC107	F-5
IC108	F-5
IC109	F-6
IC110	E-5
IC111	E-3
IC112	C-5
IC114	E-8
IC115	D-8
IC116	D-8
IC117	C-8
IC118	B-8
IC119	B-7
IC120	A-7
IC121	A-6
IC122	G-7
IC123	B-5
IC124	C-2
IC125	C-2
IC126	B-2
IC127	E-5


1
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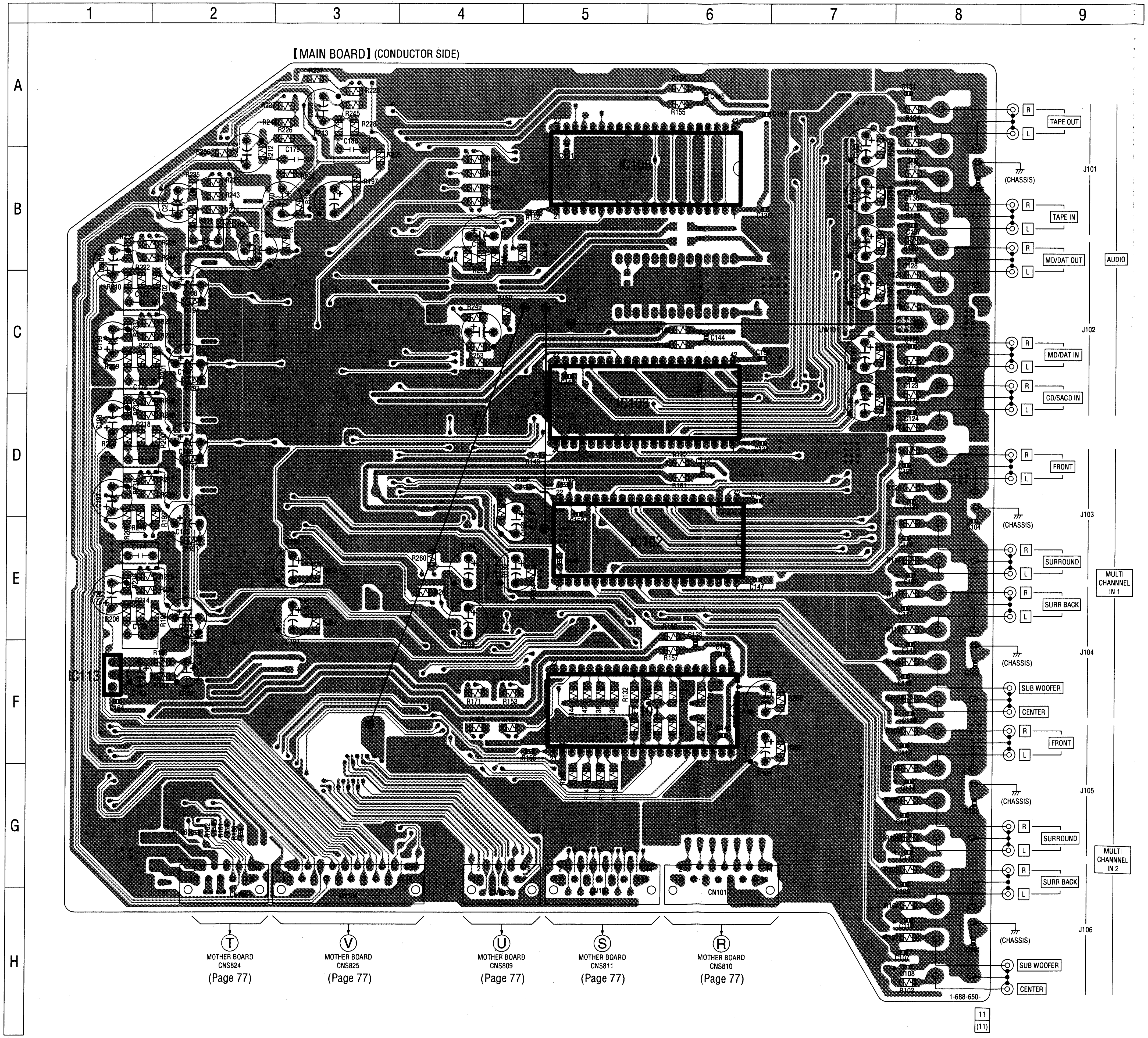
6
7
8
A
B
C
D
E
F
G
H
【MAIN BOARD】(COMPONENT SIDE)
IC121
IC120
R165
R166
IC126
IC123
IC119
IC125
IC118
IC106
IC112
R175
R174
IC124
IC117
IC116
IC115
IC110
IC127
IC114
IC111
C153
R160
R159
IC109
IC107
IC108
C181
IC122
1-688-650-
11
(11)

6-31. PRINTED WIRING BOARD – MAIN Board (Conductor Side) – • See page 35 for Circuit Boards Location. 🄻🄵 :Uses unleaded solder.


1
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9
A
B
C
D
E
F
G
H
【MAIN BOARD】(CONDUCTOR SIDE)
IC105
IC103
IC102
IC101
IC113
TAPE OUT
TAPE IN
MD/DAT OUT
MD/DAT IN
CD/SACD IN
AUDIO
J101
J102
J103
J104
J105
J106
FRONT
SURROUND
SURR BACK
SUB WOOFER
CENTER
MULTI CHANNNEL IN 1
MULTI CHANNNEL IN 2
(CHASSIS)
R
L
CN101
1-688-650-
11
(11)
Ⓣ
MOTHER BOARD
CNS824
(Page 77)
Ⓥ
MOTHER BOARD
CNS825
(Page 77)
Ⓤ
MOTHER BOARD
CNS809
(Page 77)
Ⓢ
MOTHER BOARD
CNS811
(Page 77)
Ⓡ
MOTHER BOARD
CNS810
(Page 77)

• **Semiconductor Location**

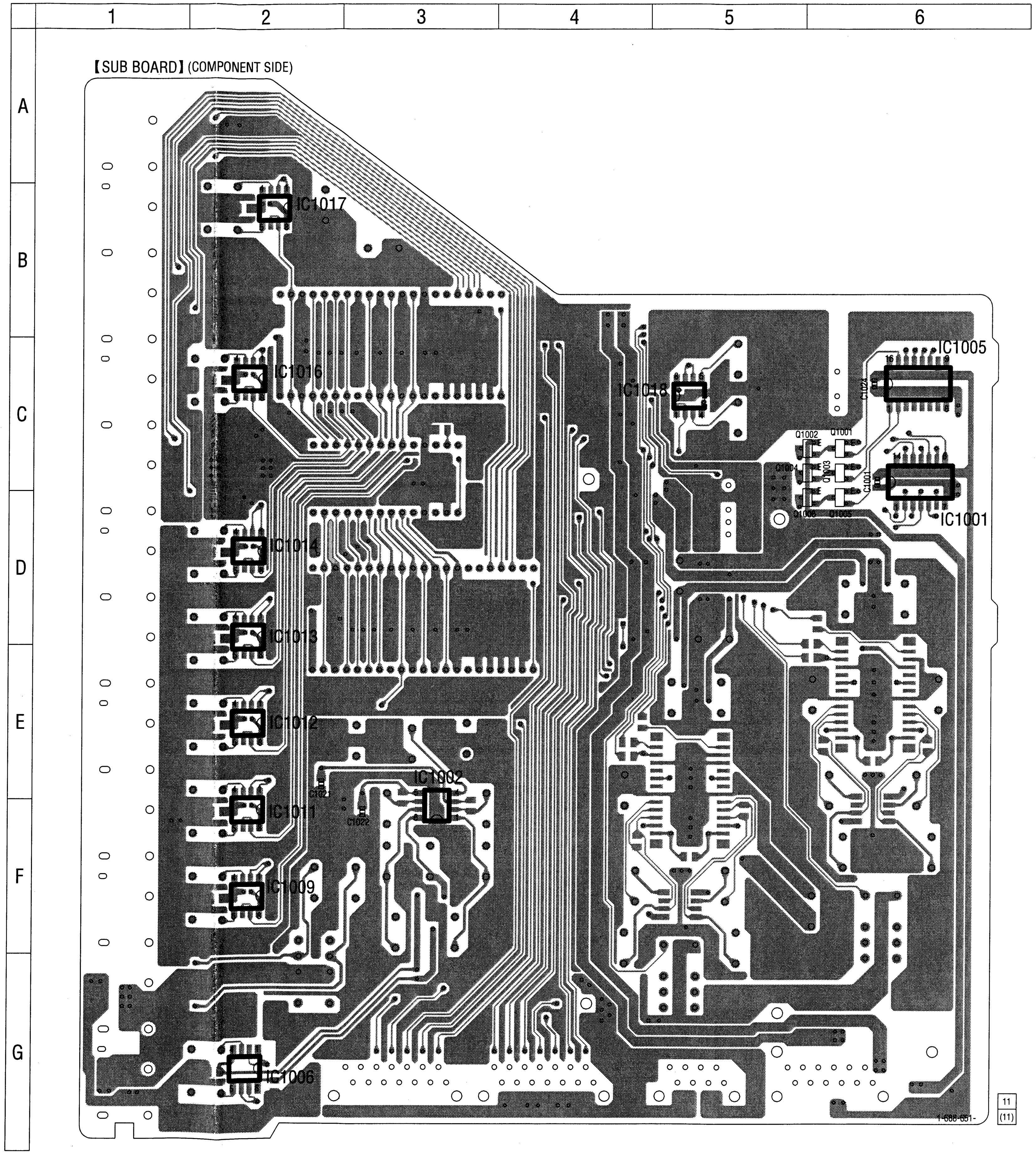
Ref. No.	Location
IC101	F-5
IC102	E-5
IC103	D-5
IC105	B-5
IC113	F-1

6-32. PRINTED WIRING BOARD – SUB Board (Component Side) – • See page 35 for Circuit Boards Location.

LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC1001	C-6
IC1002	F-3
IC1005	C-6
IC1006	G-2
IC1009	F-2
IC1011	F-2
IC1012	E-2
IC1013	D-2
IC1014	D-2
IC1016	C-2
IC1017	B-2
IC1018	C-5
Q1001	C-6
Q1002	C-6
Q1003	C-6
Q1004	C-6
Q1005	D-6
Q1006	D-6


1
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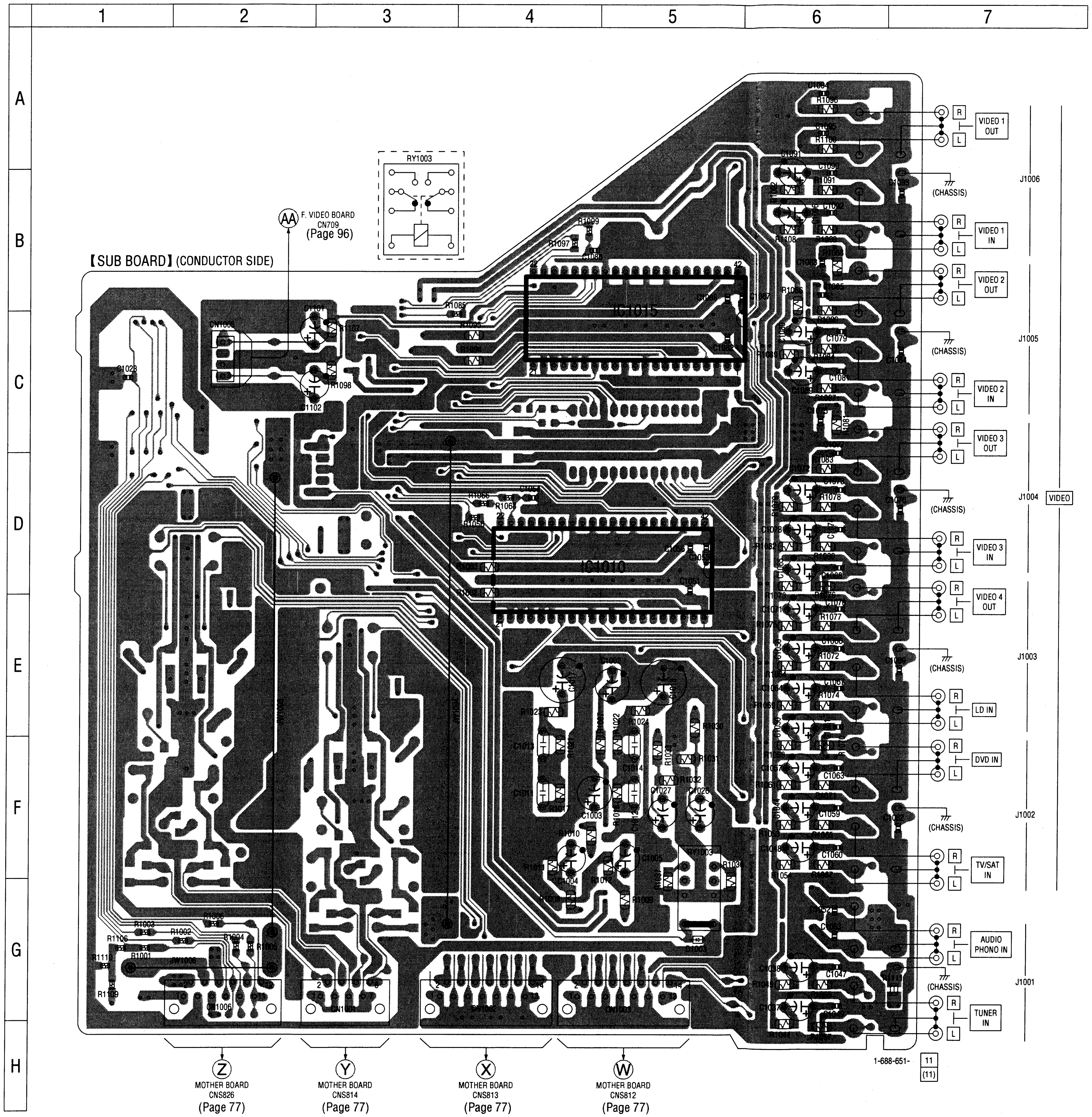
A
B
C
D
E
F
G
【SUB BOARD】(COMPONENT SIDE)
IC1017
IC1016
IC1018
IC1005
IC1001
Q1002
Q1001
Q1004
Q1003
Q1006
Q1005
C1022
C1001
IC1014
IC1013
IC1012
IC1002
C1021
C1022
IC1011
IC1009
IC1006
11
(11)
1-688-651-

6-33. PRINTED WIRING BOARD – SUB Board (Conductor Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.


1
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3
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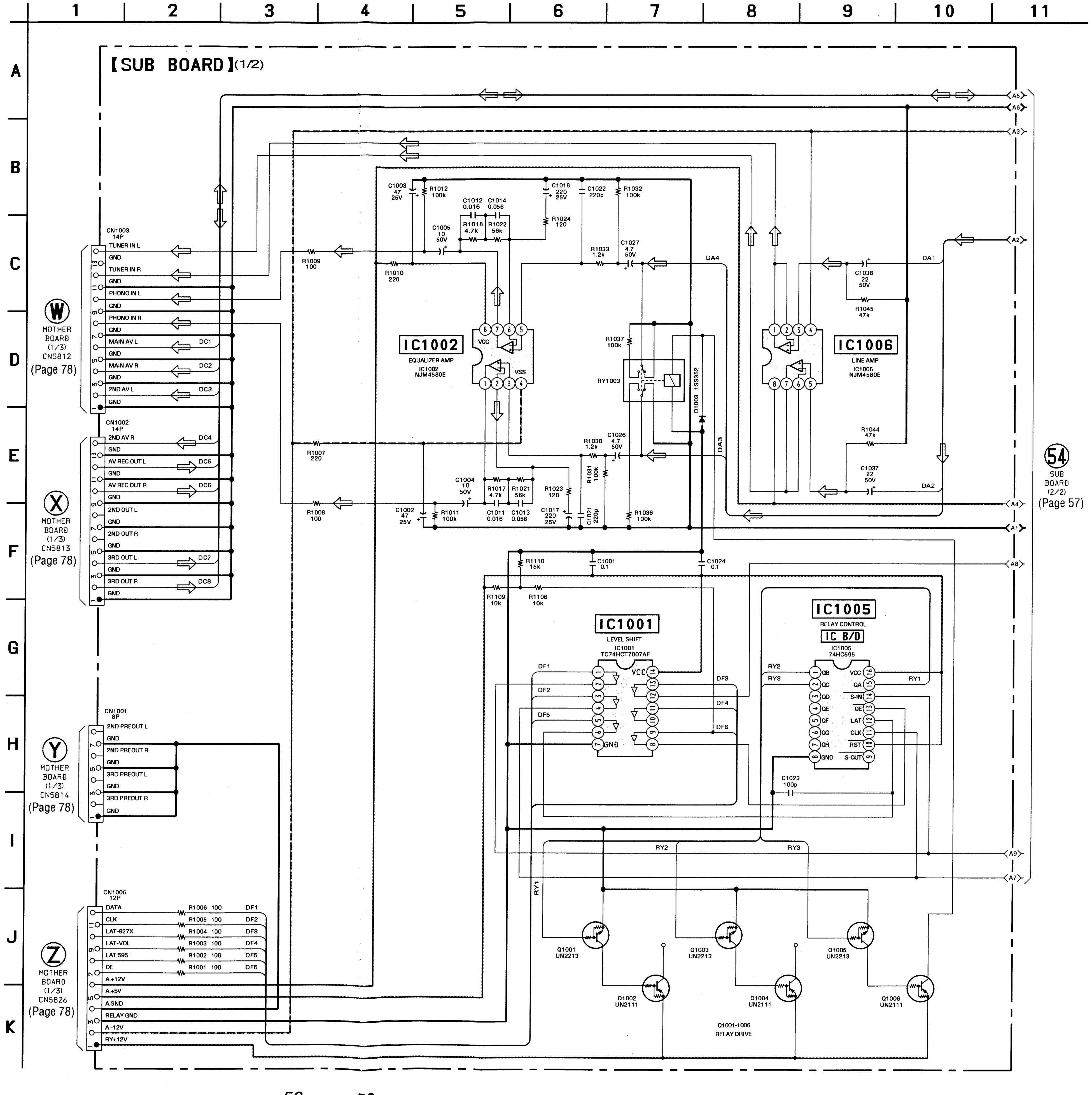
7
A
B
C
D
E
F
G
H
RY1003
AA F. VIDEO BOARD CN709 (Page 96)
【SUB BOARD】(CONDUCTOR SIDE)
IC1015
IC1010
CN1006
CN1001
CN1002
CN1003
CN1004
R1099
R1097
R1085
R1098
R1102
R1101
C1023
R1066
R1064
R1058
R1003
R1002
R1001
R1106
R1111
R1109
R1004
SW1006
C1003
C1027
C1026
R1032
R1031
R1021
R1024
C1047
C1059
C1060
C1063
C1079
R1072
R1074
R1076
R1077
R1078
R1091
R1096
R1100
R1108
C1091
R
L
VIDEO 1 OUT
VIDEO 1 IN
VIDEO 2 OUT
VIDEO 2 IN
VIDEO 3 OUT
VIDEO 3 IN
VIDEO 4 OUT
LD IN
DVD IN
TV/SAT IN
AUDIO PHONO IN
TUNER IN
(CHASSIS)
J1006
J1005
J1004
J1003
J1002
J1001
VIDEO
Z MOTHER BOARD CNS826 (Page 77)
Y MOTHER BOARD CNS814 (Page 77)
X MOTHER BOARD CNS813 (Page 77)
W MOTHER BOARD CNS812 (Page 77)
1-688-651- 11 (11)

• **Semiconductor Location**

Ref. No.	Location
D1003	G-5
IC1010	D-5
IC1015	C-5
IC1019	C-5

6-34. SCHEMATIC DIAGRAM – SUB Board (1/2) –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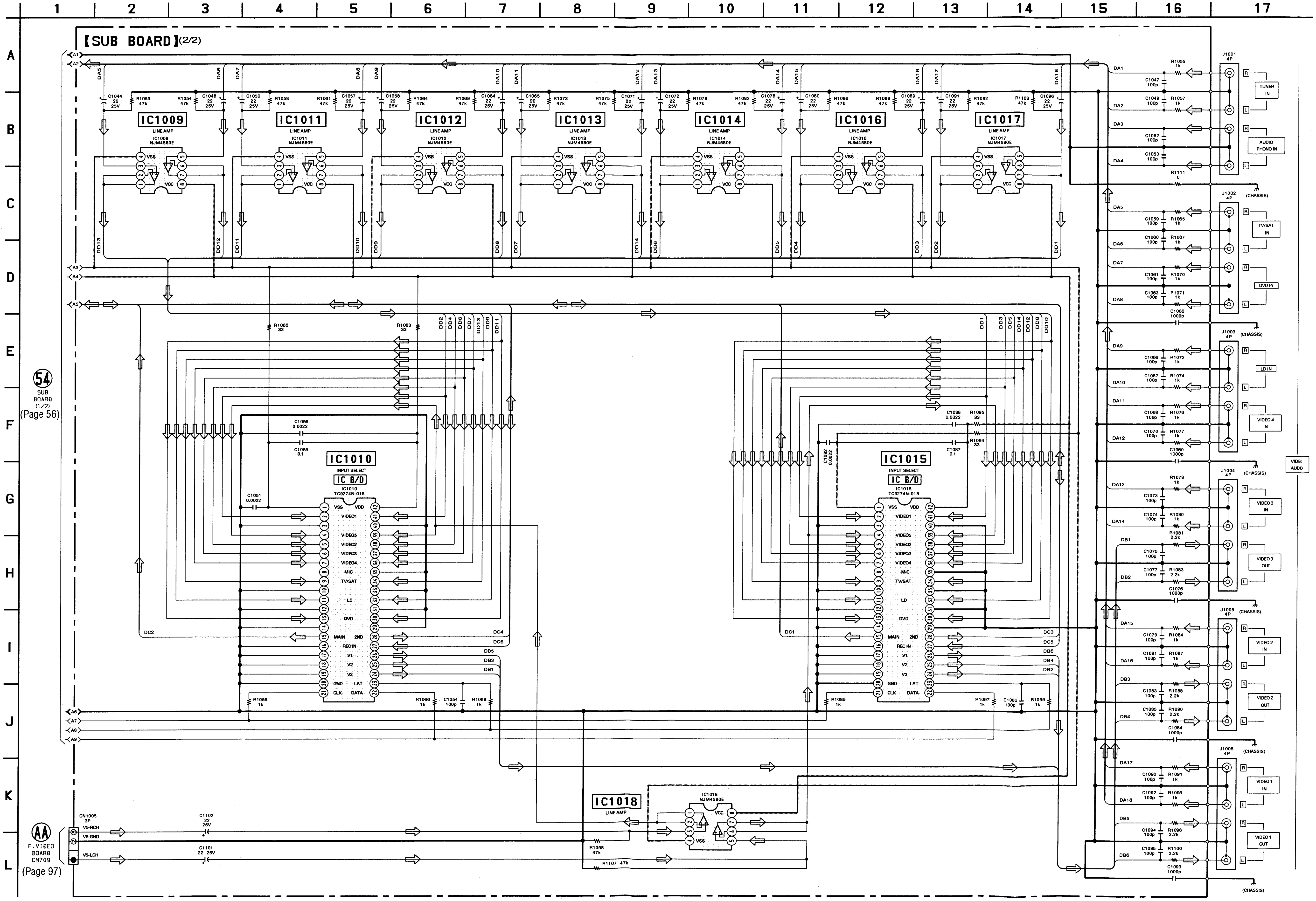
11
A
B
C
D
E
F
G
H
I
J
K
【SUB BOARD】(1/2)
CN1003 14P
TUNER IN L
GND
TUNER IN R
GND
PHONO IN L
GND
PHONO IN R
GND
MAIN AV L
GND
MAIN AV R
GND
2ND AV L
GND
DC1
DC2
DC3
W
MOTHER BOARD (1/3) CN5812 (Page 78)
CN1002 14P
2ND AV R
GND
AV REC OUT L
GND
AV REC OUT R
GND
2ND OUT L
GND
2ND OUT R
GND
3RD OUT L
GND
3RD OUT R
GND
DC4
DC5
DC6
DC7
DC8
X
MOTHER BOARD (1/3) CN5813 (Page 78)
CN1001 8P
2ND PREOUT L
GND
2ND PREOUT R
GND
3RD PREOUT L
GND
3RD PREOUT R
GND
Y
MOTHER BOARD (1/3) CN5814 (Page 78)
CN1006 12P
DATA
CLK
LAT-927X
LAT-VOL
LAT 595
OE
A.+12V
A.+5V
A.GND
RELAY GND
A.-12V
RY+12V
R1006 100
R1005 100
R1004 100
R1003 100
R1002 100
R1001 100
DF1
DF2
DF3
DF4
DF5
DF6
Z
MOTHER BOARD (1/3) CN5826 (Page 78)
R1009 100
R1010 220
R1007 220
R1008 100
C1003 47 25V
R1012 100k
C1012 0.016
C1014 0.056
R1018 4.7k
R1022 56k
C1005 10 50V
C1018 220 25V
C1022 220p
R1032 100k
R1024 120
R1033 1.2k
C1027 4.7 50V
DA4
IC1002
EQUALIZER AMP
IC1002 NJM4580E
VCC
VSS
R1037 100k
RY1003
D1003 1SS352
DA3
R1030 1.2k
C1026 4.7 50V
C1004 10 50V
R1017 4.7k
R1021 56k
R1023 120
R1031 100k
C1002 47 25V
R1011 100k
C1011 0.016
C1013 0.056
C1017 220 25V
C1021 220p
R1036 100k
IC1006
LINE AMP
IC1006 NJM4580E
C1038 22 50V
R1045 47k
DA1
R1044 47k
C1037 22 50V
DA2
A5
A6
A3
A2
A4
A1
A8
A9
A7
54
SUB BOARD (2/2) (Page 57)
R1110 15k
C1001 0.1
C1024 0.1
R1109 10k
R1106 10k
IC1001
LEVEL SHIFT
IC1001 TC74HCT7007AF
VCC
GND
DF1
DF2
DF5
DF3
DF4
DF6
IC1005
RELAY CONTROL
IC B/D
IC1005 74HC595
QB
QC
QD
QE
QF
QG
QH
GND
VCC
QA
S-IN
OE
LAT
CLK
RST
S-OUT
RY2
RY3
RY1
C1023 100p
RY2
RY3
RY1
Q1001 UN2213
Q1002 UN2111
Q1003 UN2213
Q1004 UN2111
Q1005 UN2213
Q1006 UN2111
Q1001-1006 RELAY DRIVE

6-35. SCHEMATIC DIAGRAM – SUB Board (2/2) –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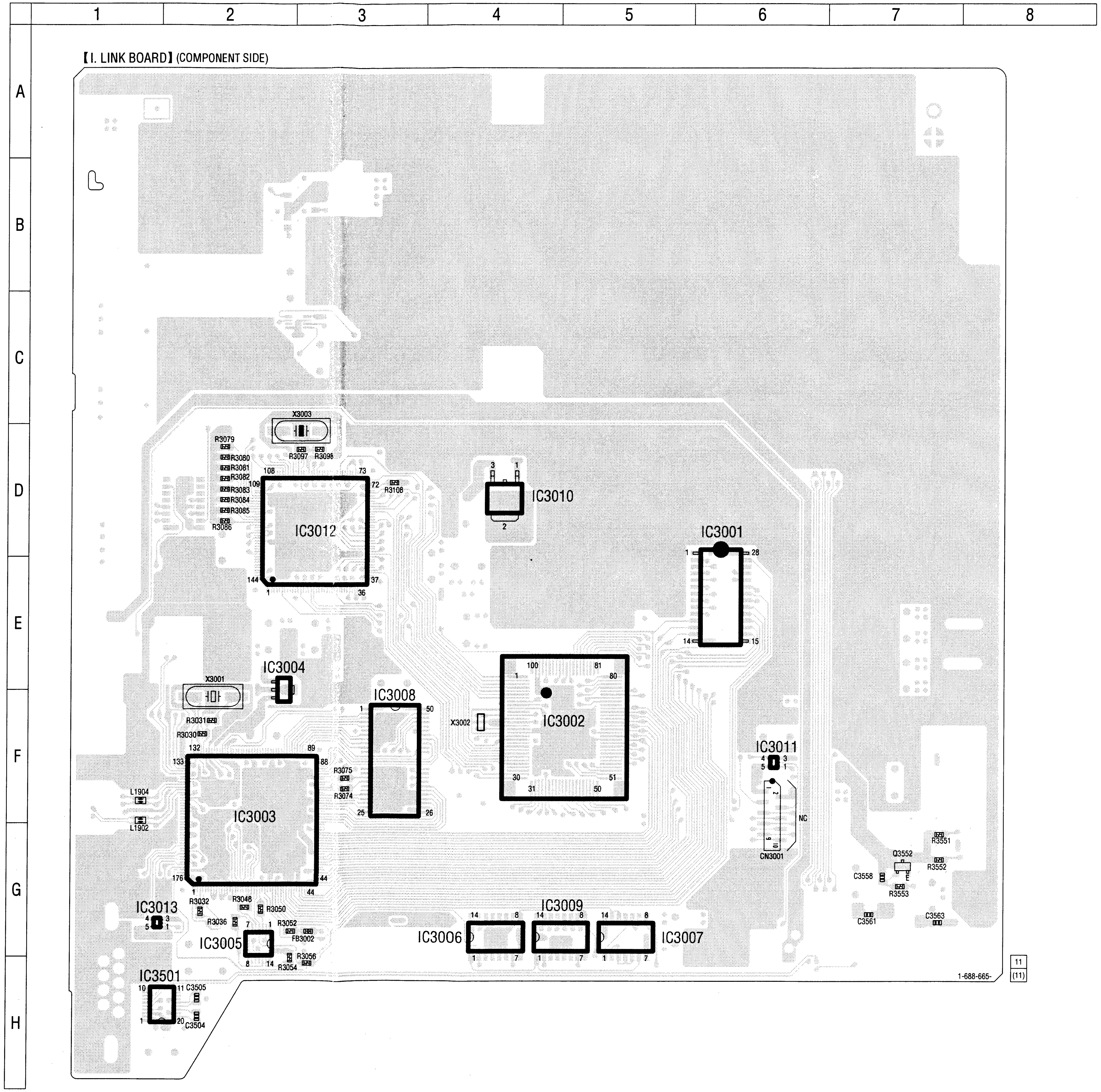
11
12
13
14
15
16
17
A
B
C
D
E
F
G
H
I
J
K
L
【SUB BOARD】(2/2)
IC1009
LINE AMP
IC1009
NJM4580E
IC1011
LINE AMP
IC1011
NJM4580E
IC1012
LINE AMP
IC1012
NJM4580E
IC1013
LINE AMP
IC1013
NJM4580E
IC1014
LINE AMP
IC1014
NJM4580E
IC1016
LINE AMP
IC1016
NJM4580E
IC1017
LINE AMP
IC1017
NJM4580E
IC1010
INPUT SELECT
IC B/D
IC1010
TC9274N-015
IC1015
INPUT SELECT
IC B/D
IC1015
TC9274N-015
IC1018
LINE AMP
IC1018
NJM4580E
VSS
VCC
VDD
VIDEO1
VIDEO5
VIDEO2
VIDEO3
VIDEO4
MIC
TV/SAT
LD
DVD
MAIN
2ND
REC IN
V1
V2
V3
GND
LAT
CLK
DATA
54
SUB
BOARD
(1/2)
(Page 56)
AA
F-VIDEO
BOARD
CN709
(Page 97)
CN1005
3P
V5-RCH
V5-GND
V5-LCH
J1001
4P
TUNER
IN
AUDIO
PHONO IN
J1002
4P
TV/SAT
IN
DVD IN
J1003
4P
LD IN
VIDEO 4
IN
J1004
4P
VIDEO 3
IN
VIDEO 3
OUT
J1005
4P
VIDEO 2
IN
VIDEO 2
OUT
J1006
4P
VIDEO 1
IN
VIDEO 1
OUT
VIDEO
AUDIO
(CHASSIS)
R
L
DC1
DC2
DC3
DC4
DC5
DC6
DB1
DB2
DB3
DB4
DB5
DB6
R1062
33
R1063
33
C1056
0.0022
C1055
0.1
C1051
0.0022
R1056
1k
R1066
1k
C1054
100p
R1068
1k
C1088
0.0022
R1095
33
R1094
33
C1087
0.1
C1082
0.0022
R1085
1k
R1097
1k
C1086
100p
R1099
1k
C1102
22
25V
C1101
22 25V
R1098
47k
R1107 47k
R1111
0

6-36. PRINTED WIRING BOARD – I. LINK Board (Component Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC3001	E-6
IC3002	E-5
IC3003	F-2
IC3004	E-2
IC3005	G-2
IC3006	G-4
IC3007	G-5
IC3008	F-3
IC3009	G-5
IC3010	D-4
IC3011	F-6
IC3012	D-3
IC3013	G-1
IC3501	H-2
Q3552	G-7


1
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7
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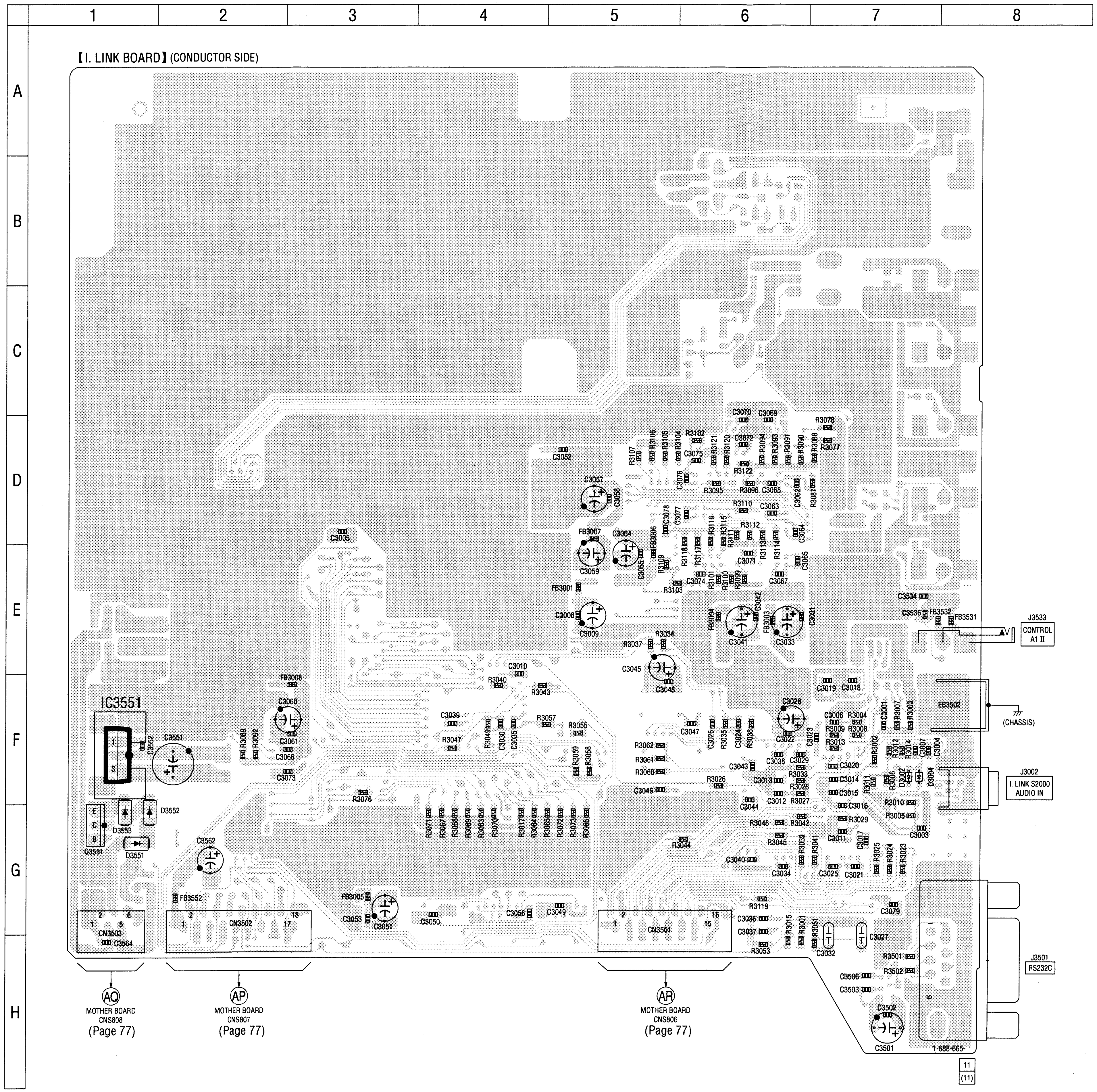
A
B
C
D
E
F
G
H
【I. LINK BOARD】(COMPONENT SIDE)
X3003
R3079
R3080
R3081
R3082
R3083
R3084
R3085
R3086
R3097
R3098
R3108
IC3012
108
73
72
109
144
1
36
37
IC3010
3
1
2
IC3001
1
28
14
15
IC3004
X3001
R3031
R3030
IC3008
1
50
25
26
X3002
IC3002
100
81
80
30
31
50
51
IC3011
4
3
5
1
NC
CN3001
IC3003
132
89
133
88
176
44
R3075
R3074
L1904
L1902
IC3013
R3032
R3046
R3050
R3036
R3052
FB3002
R3056
R3054
IC3005
14
8
7
IC3009
IC3006
IC3007
IC3501
10
11
20
C3505
C3504
Q3552
R3551
R3552
R3553
C3558
C3561
C3563
1-688-665-
11
(11)

New part of microcomputer (IC3002) and EEPROM (IC3001) on the I. LINK board cannot be used. Therefore, if the mounted I. LINK board (A-4733-835-A) is replaced, exchange new microcomputer and new EEPROM with that used before the replacement.

6-37. PRINTED WIRING BOARD – I. LINK Board (Conductor Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.


1
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4
5
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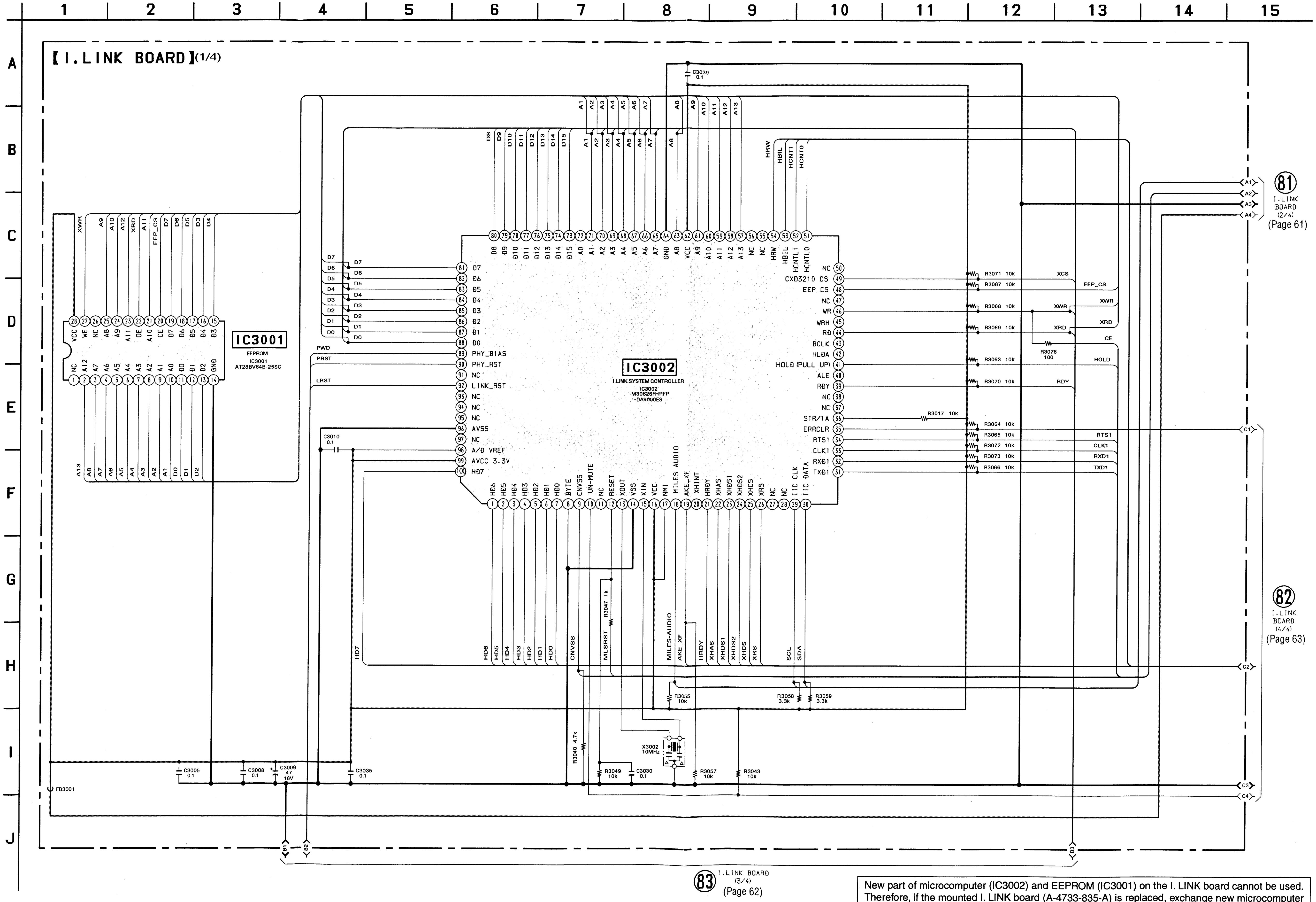
7
8
A
B
C
D
E
F
G
H
【I. LINK BOARD】(CONDUCTOR SIDE)
IC3551
C3551
C3552
D3551
D3552
D3553
Q3551
E
C
B
C3562
FB3552
FB3008
C3060
C3061
C3066
C3073
C3005
C3052
C3057
C3058
FB3007
C3054
C3059
C3055
FB3006
FB3001
C3008
C3009
R3034
R3037
C3045
C3048
C3010
R3040
R3043
C3039
R3047
R3057
R3055
R3076
FB3005
C3053
C3051
C3050
C3056
C3049
C3070
C3069
R3078
R3077
C3041
C3033
C3031
FB3004
FB3003
C3028
C3022
C3047
C3043
C3044
C3046
R3044
R3026
R3046
R3045
R3042
C3040
C3034
C3025
C3021
C3011
C3003
C3019
C3018
C3534
C3535
FB3532
FB3531
EB3502
D3002
D3004
C3027
C3032
R3119
C3036
C3037
R3053
C3079
R3501
R3502
C3506
C3503
C3502
C3501
2
6
1
5
CN3503
C3564
2
18
1
17
CN3502
2
16
1
15
CN3501
J3533
CONTROL
A1 II
(CHASSIS)
J3002
i. LINK S2000
AUDIO IN
J3501
RS232C
1
9
AQ
MOTHER BOARD
CNS808
(Page 77)
AP
MOTHER BOARD
CNS807
(Page 77)
AR
MOTHER BOARD
CNS806
(Page 77)
1-688-665-
11
(11)

- **Semiconductor Location**

Ref. No.	Location
D3002	F-7
D3004	F-7
D3551	G-1
D3552	G-1
D3553	G-1
IC3551	F-1
Q3551	G-1

6-38. SCHEMATIC DIAGRAM – I. LINK Board (1/4) –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12
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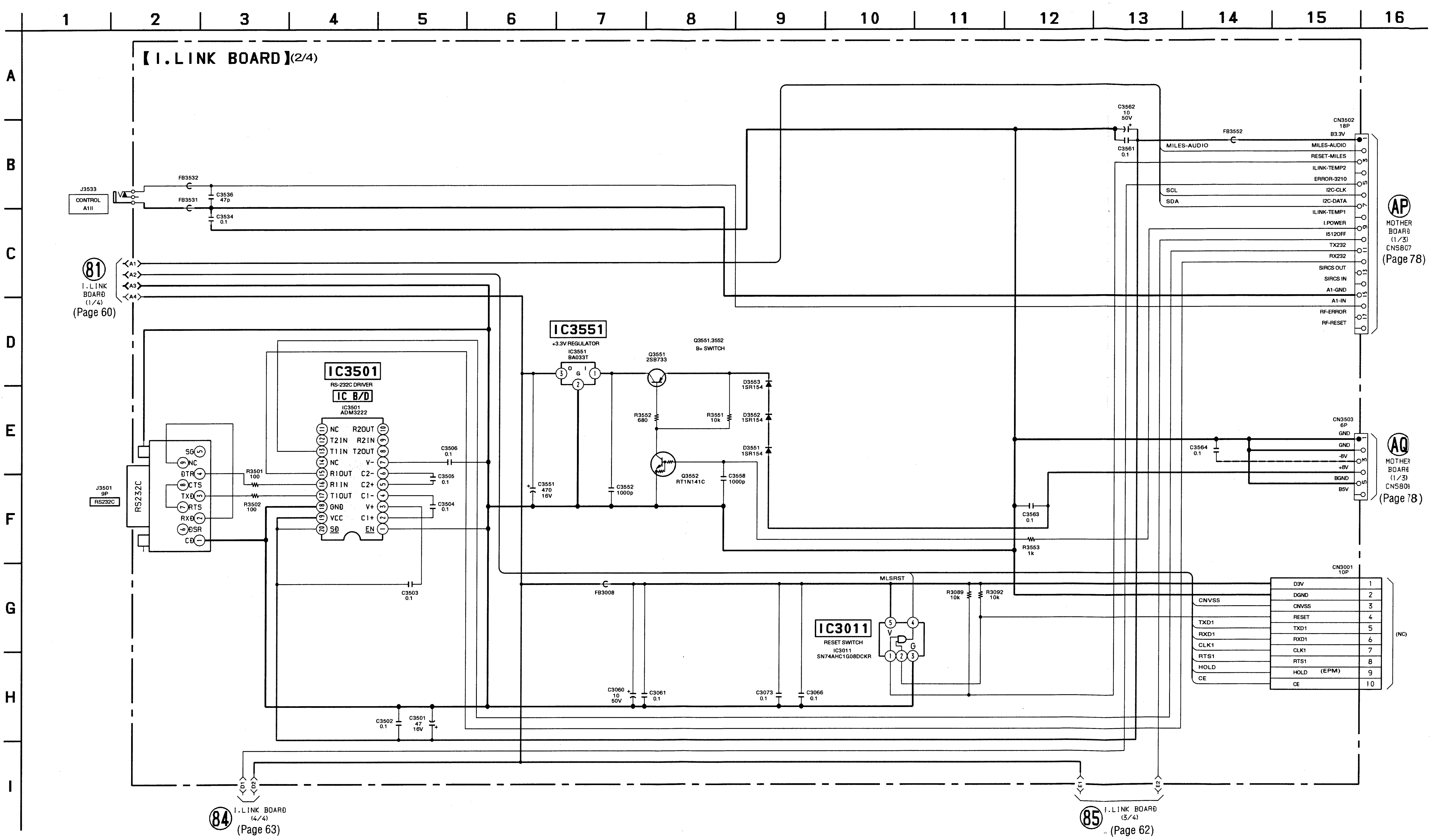
14
15
A
B
C
D
E
F
G
H
I
J
[I.LINK BOARD](1/4)
IC3001
EEPROM
IC3001
AT28BV64B-25SC
IC3002
I.LINK SYSTEM CONTROLLER
IC3002
M30626FHPFP
-DA9000ES
C3039
0.1
C3010
0.1
C3005
0.1
C3008
0.1
C3009
47
16V
C3035
0.1
C3030
0.1
FB3001
X3002
10MHz
R3071 10k
R3067 10k
R3068 10k
R3069 10k
R3076
100
R3063 10k
R3070 10k
R3017 10k
R3064 10k
R3065 10k
R3072 10k
R3073 10k
R3066 10k
R3047 1k
R3040 4.7k
R3049
10k
R3055
10k
R3057
10k
R3043
10k
R3058
3.3k
R3059
3.3k
XCS
EEP_CS
XWR
XRD
CE
HOLD
RDY
RTS1
CLK1
RXD1
TXD1
PWD
PRST
LRST
HD7
HD6
HD5
HD4
HD3
HD2
HD1
HD0
CNVSS
MLSRST
MILES-AUDIO
AKE_XF
HRDY
XHAS
XHDS1
XHDS2
XHCS
XRS
SCL
SDA
HRW
HBIL
HCNT1
HCNT0
D7
D6
D5
D4
D3
D2
D1
D0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
D8
D9
D10
D11
D12
D13
D14
D15
XWR
XRD
EEP_CS
VCC
WE
NC
OE
CE
GND
PHY_BIAS
PHY_RST
LINK_RST
AVSS
A/D VREF
AVCC 3.3V
CXD3210 CS
WRH
RD
BCLK
HLDA
HOLD (PULL UP)
ALE
STR/TA
ERRCLR
BYTE
UN-MUTE
RESET
XOUT
VSS
XIN
NMI
MILES AUDIO
XHINT
IIC CLK
IIC DATA
A1
A2
A3
A4
C1
C2
C3
C4
B1
B2
B3
81
I.LINK
BOARD
(2/4)
(Page 61)
82
I.LINK
BOARD
(4/4)
(Page 63)
83
I.LINK BOARD
(3/4)
(Page 62)

New part of microcomputer (IC3002) and EEPROM (IC3001) on the I. LINK board cannot be used. Therefore, if the mounted I. LINK board (A-4733-835-A) is replaced, exchange new microcomputer and new EEPROM with that used before the replacement.

6-39. SCHEMATIC DIAGRAM – I. LINK Board (2/4) –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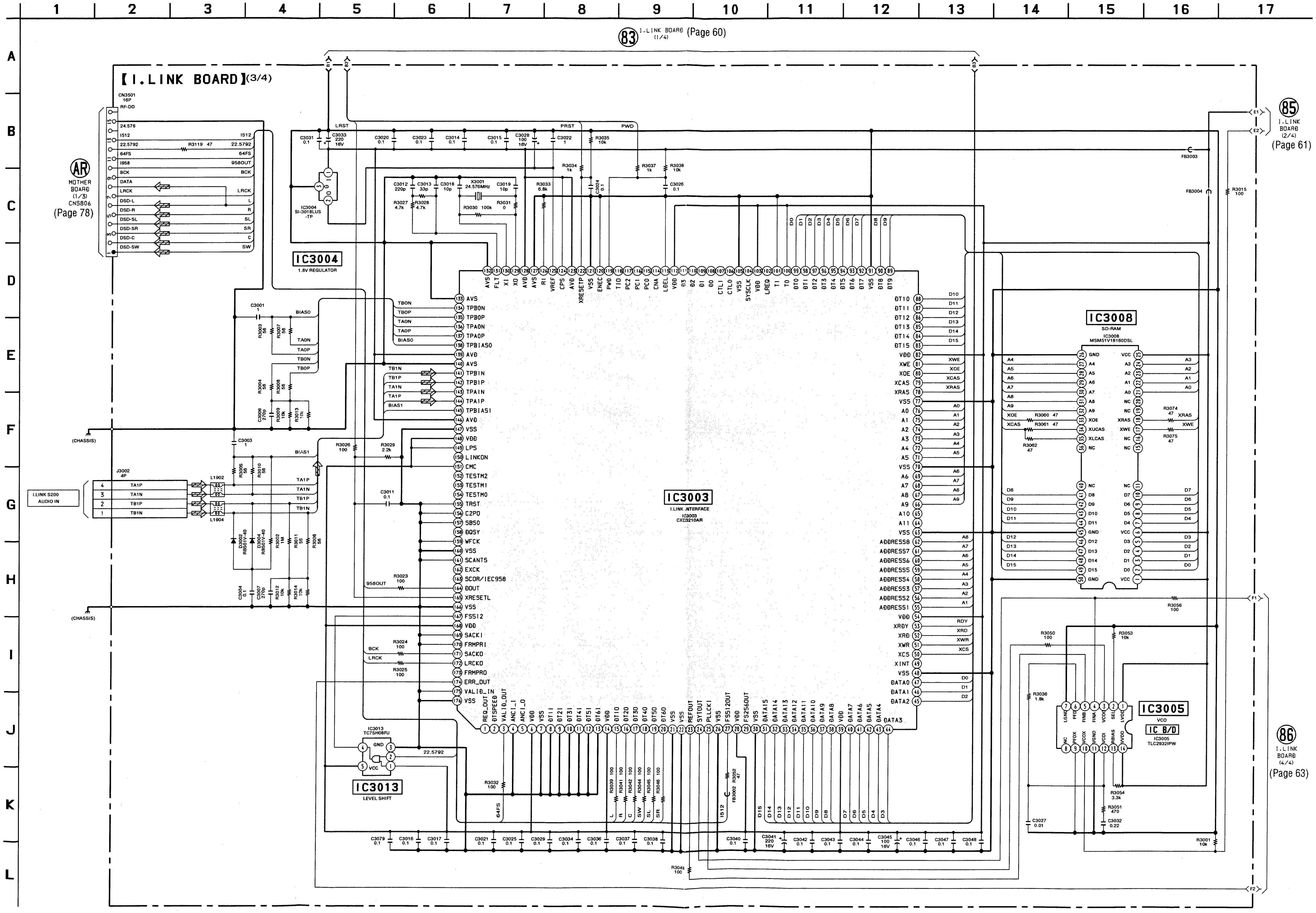
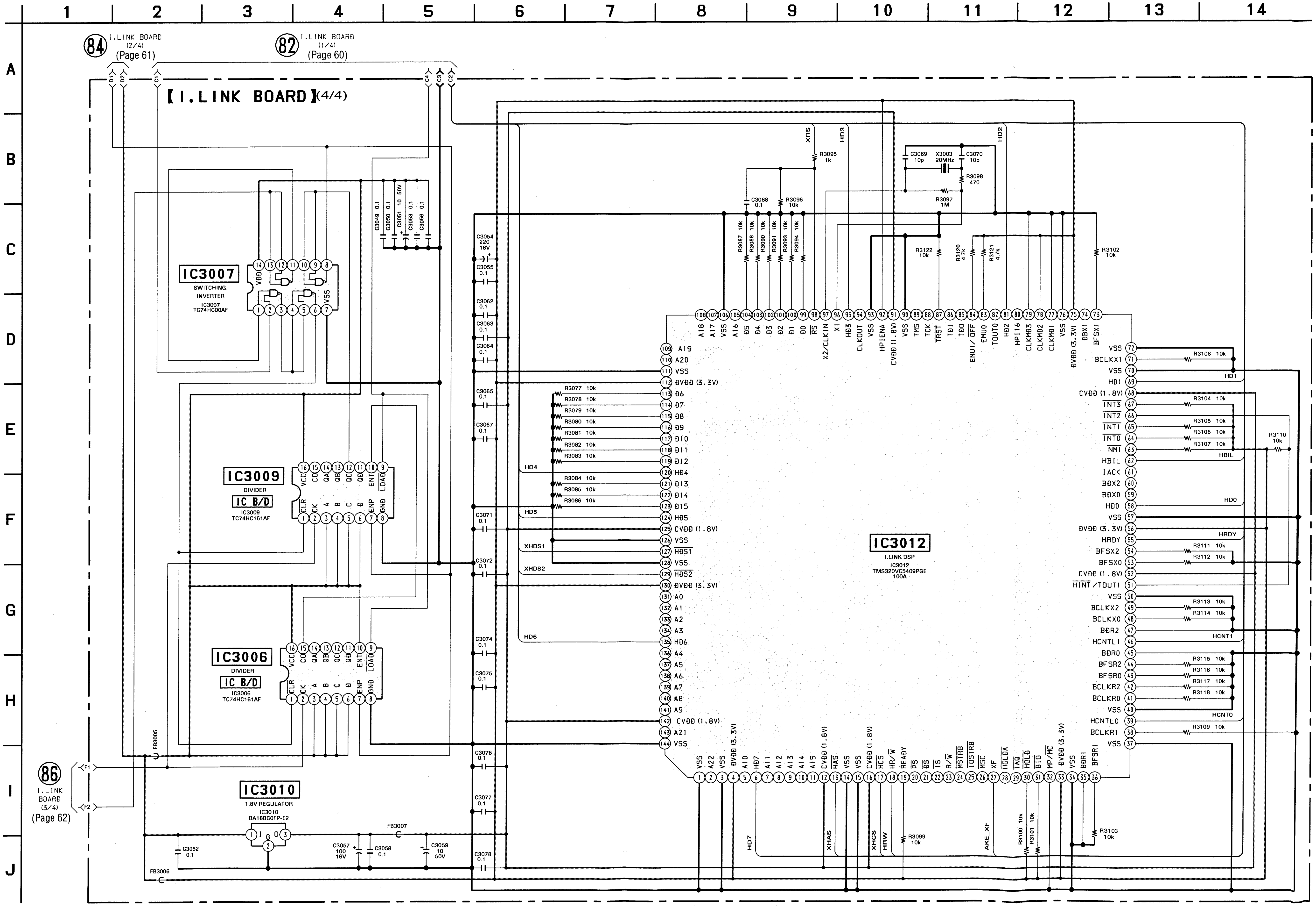
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
【I.LINK BOARD】(2/4)
J3533
CONTROL
A1II
FB3532
FB3531
C3536
47p
C3534
0.1
81
I.LINK
BOARD
(1/4)
(Page 60)
A1
A2
A3
A4
IC3501
RS-232C DRIVER
IC B/D
IC3501
ADM3222
NC
T2IN
T1IN
R1OUT
R1IN
T1OUT
GND
VCC
SD
R2OUT
R2IN
T2OUT
V-
C2-
C2+
C1-
V+
C1+
EN
J3501
9P
RS232C
SG
DTR
TXD
RXD
CD
CTS
RTS
DSR
R3501
100
R3502
100
C3506
0.1
C3505
0.1
C3504
0.1
C3503
0.1
C3502
0.1
C3501
47
16V
IC3551
+3.3V REGULATOR
IC3551
BA033T
O
G
I
C3551
470
16V
C3552
1000p
Q3551
2SB733
Q3551,3552
B+ SWITCH
R3552
680
R3551
10k
Q3552
RT1N141C
C3558
1000p
D3553
1SR154
D3552
1SR154
D3551
1SR154
FB3008
C3060
10
50V
C3061
0.1
C3073
0.1
C3066
0.1
MLSRST
IC3011
RESET SWITCH
IC3011
SN74AHC1G08DCKR
R3089
10k
R3092
10k
C3562
10
50V
C3561
0.1
FB3552
MILES-AUDIO
SCL
SDA
CN3502
18P
B3.3V
MILES-AUDIO
RESET-MILES
ILINK-TEMP2
ERROR-3210
I2C-CLK
I2C-DATA
ILINK-TEMP1
I.POWER
I5120FF
TX232
RX232
SIRCS OUT
SIRCS IN
A1-GND
A1-IN
RF-ERROR
RF-RESET
AP
MOTHER
BOARD
(1/3)
CNS807
(Page 78)
C3564
0.1
CN3503
6P
GND
GND
-8V
+8V
BGND
B5V
AQ
MOTHER
BOARD
(1/3)
CNS808
(Page 78)
C3563
0.1
R3553
1k
CN3001
10P
D3V
DGND
CNVSS
RESET
TXD1
RXD1
CLK1
RTS1
HOLD
CE
(EPM)
CNVSS
TXD1
RXD1
CLK1
RTS1
HOLD
CE
(NC)
D1
D2
84
I.LINK BOARD
(4/4)
(Page 63)
E1
E2
85
I.LINK BOARD
(3/4)
(Page 62)

6-40. SCHEMATIC DIAGRAM – I. LINK Board (3/4) –


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
A B C D E F G H I J K L
[I.LINK BOARD](3/4)
83 I.LINK BOARD (1/4) (Page 60)
85 I.LINK BOARD (2/4) (Page 61)
86 I.LINK BOARD (4/4) (Page 63)
AR MOTHER BOARD (1/3) CN5806 (Page 78)
CN3501 16P RF-DO
24.576
I512
22.5792
64FS
I958
958OUT
BCK
DATA
LRCK
DSD-L
DSD-R
DSD-SL
DSD-SR
DSD-C
DSD-SW
R3119 47
IC3004 1.8V REGULATOR
IC3004 SI-3018LUS-TP
IC3003 I.LINK INTERFACE IC3003 CXD3210AR
IC3008 SD-RAM IC3008 MSM51V18160DSL
IC3005 VCO
IC B/D IC3005 TLC2932IPW
IC3013 LEVEL SHIFT IC3013 TC7SH08FU
J3002 4P
I.LINK S200 AUDIO IN
TA1P
TA1N
TB1P
TB1N
L1902
L1904
(CHASSIS)
X3001 24.576MHz
FB3003
FB3004
22.5792
LRST
PRST
PWD
BIAS0
BIAS1
TB0N
TB0P
TA0N
TA0P
XWE
XOE
XCAS
XRAS
RDY
XRD
XWR
XCS
E1
E2
F1
F2

6-41. SCHEMATIC DIAGRAM – I. LINK Board (4/4) –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9
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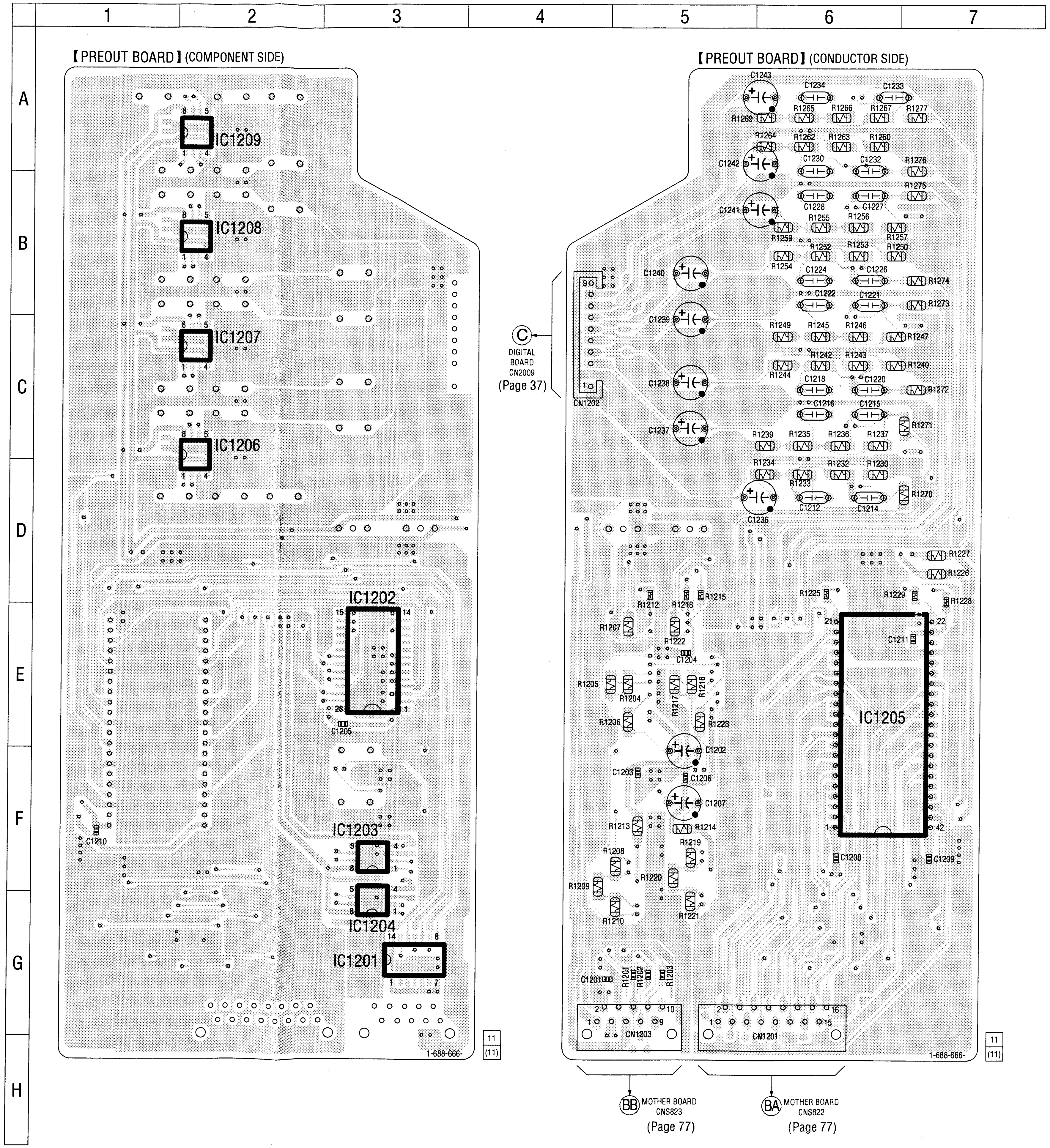
11
12
13
14
A
B
C
D
E
F
G
H
I
J
84
I.LINK BOARD (2/4) (Page 61)
82
I.LINK BOARD (1/4) (Page 60)
86
I.LINK BOARD (3/4) (Page 62)
【I.LINK BOARD】(4/4)
IC3007
SWITCHING, INVERTER
IC3007 TC74HC00AF
IC3009
DIVIDER
IC B/D
IC3009 TC74HC161AF
IC3006
DIVIDER
IC B/D
IC3006 TC74HC161AF
IC3010
1.8V REGULATOR
IC3010 BA18BC0FP-E2
IC3012
I.LINK DSP
IC3012 TMS320VC5409PGE 100A
X3003 20MHz
C3069 10p
C3070 10p
R3098 470
R3097 1M
R3095 1k
C3068 0.1
R3096 10k
R3122 10k
R3120 4.7k
R3121 4.7k
R3102 10k
C3054 220 16V
C3049 0.1
C3050 0.1
C3051 10 50V
C3053 0.1
C3056 0.1
C3052 0.1
C3057 100 16V
C3058 0.1
C3059 10 50V
FB3005
FB3006
FB3007
XRS
HD3
HD2
HD1
HD0
HD4
HD5
HD6
HD7
XHDS1
XHDS2
HRDY
HCNT1
HCNT0
HBIL
XHAS
XHCS
HRW
AKE_XF
R3099 10k
R3100 10k
R3101 10k
R3103 10k
R3110 10k
63 63

6-42. PRINTED WIRING BOARD – PREOUT Board – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC1201	G-3
IC1202	E-3
IC1203	F-3
IC1204	G-3
IC1205	E-6
IC1206	C-2
IC1207	C-2
IC1208	B-2
IC1209	A-2


1
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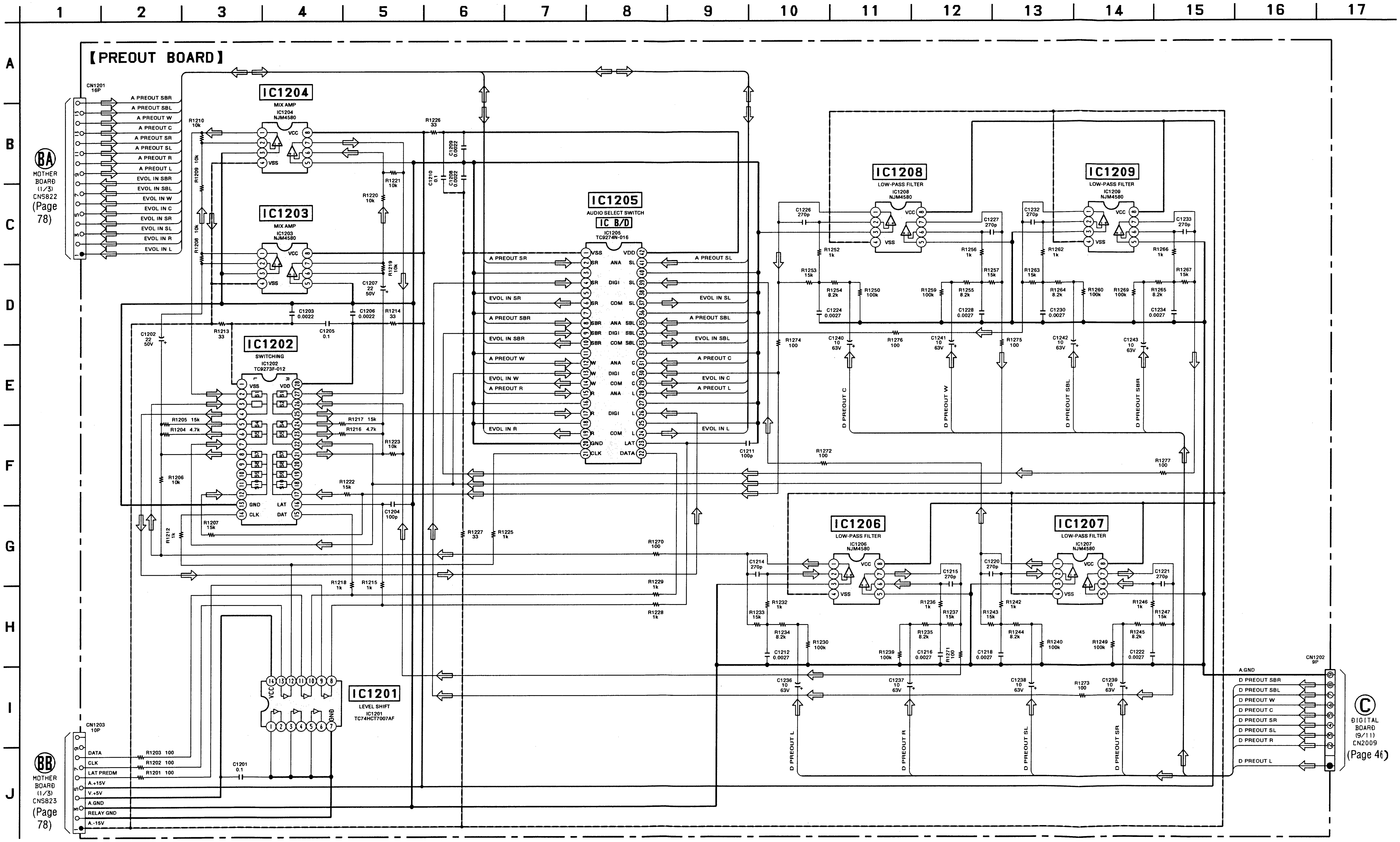
7
A
B
C
D
E
F
G
H
【PREOUT BOARD】(COMPONENT SIDE)
IC1209
IC1208
IC1207
IC1206
IC1202
C1205
IC1203
IC1204
IC1201
C1210
1-688-666-
11
(11)
【PREOUT BOARD】(CONDUCTOR SIDE)
C1243
C1234
C1233
C1242
C1241
C1240
C1239
C1238
C1237
C1236
C1230
C1232
C1228
C1227
C1224
C1226
C1222
C1221
C1218
C1220
C1216
C1215
C1212
C1214
C1211
C1204
C1202
C1203
C1206
C1207
C1208
C1209
C1201
R1269
R1265
R1266
R1267
R1277
R1264
R1262
R1263
R1260
R1276
R1275
R1255
R1256
R1257
R1259
R1252
R1253
R1250
R1254
R1274
R1273
R1249
R1245
R1246
R1247
R1242
R1243
R1240
R1244
R1272
R1271
R1239
R1235
R1236
R1237
R1234
R1232
R1230
R1233
R1270
R1227
R1226
R1225
R1229
R1228
R1212
R1218
R1215
R1207
R1222
R1205
R1204
R1217
R1216
R1206
R1223
R1213
R1214
R1219
R1208
R1220
R1209
R1210
R1221
R1201
R1202
R1203
IC1205
CN1202
CN1203
CN1201
Ⓒ
DIGITAL
BOARD
CN2009
(Page 37)
BB MOTHER BOARD
CNS823
(Page 77)
BA MOTHER BOARD
CNS822
(Page 77)
1-688-666-
11
(11)

6-43. SCHEMATIC DIAGRAM – PREOUT Board –


[PREOUT BOARD]
IC1204
MIX AMP
IC1204 NJM4580
IC1203
MIX AMP
IC1203 NJM4580
IC1202
SWITCHING
IC1202 TC9273F-012
IC1205
AUDIO SELECT SWITCH
IC B/D
IC1205 TC9274N-016
IC1201
LEVEL SHIFT
IC1201 TC74HCT7007AF
IC1208
LOW-PASS FILTER
IC1208 NJM4580
IC1209
LOW-PASS FILTER
IC1209 NJM4580
IC1206
LOW-PASS FILTER
IC1206 NJM4580
IC1207
LOW-PASS FILTER
IC1207 NJM4580
CN1201 16P
A PREOUT SBR
A PREOUT SBL
A PREOUT W
A PREOUT C
A PREOUT SR
A PREOUT SL
A PREOUT R
A PREOUT L
EVOL IN SBR
EVOL IN SBL
EVOL IN W
EVOL IN C
EVOL IN SR
EVOL IN SL
EVOL IN R
EVOL IN L
BA
MOTHER BOARD (1/3) CN5822 (Page 78)
CN1203 10P
DATA
CLK
LAT PREDM
A.+15V
V.+5V
A.GND
RELAY GND
A.-15V
BB
MOTHER BOARD (1/3) CN5823 (Page 78)
CN1202 9P
A.GND
D PREOUT SBR
D PREOUT SBL
D PREOUT W
D PREOUT C
D PREOUT SR
D PREOUT SL
D PREOUT R
D PREOUT L
C
DIGITAL BOARD (9/11) CN2009 (Page 46)
D PREOUT C
D PREOUT W
D PREOUT SBL
D PREOUT SBR
D PREOUT L
D PREOUT R
D PREOUT SL
D PREOUT SR
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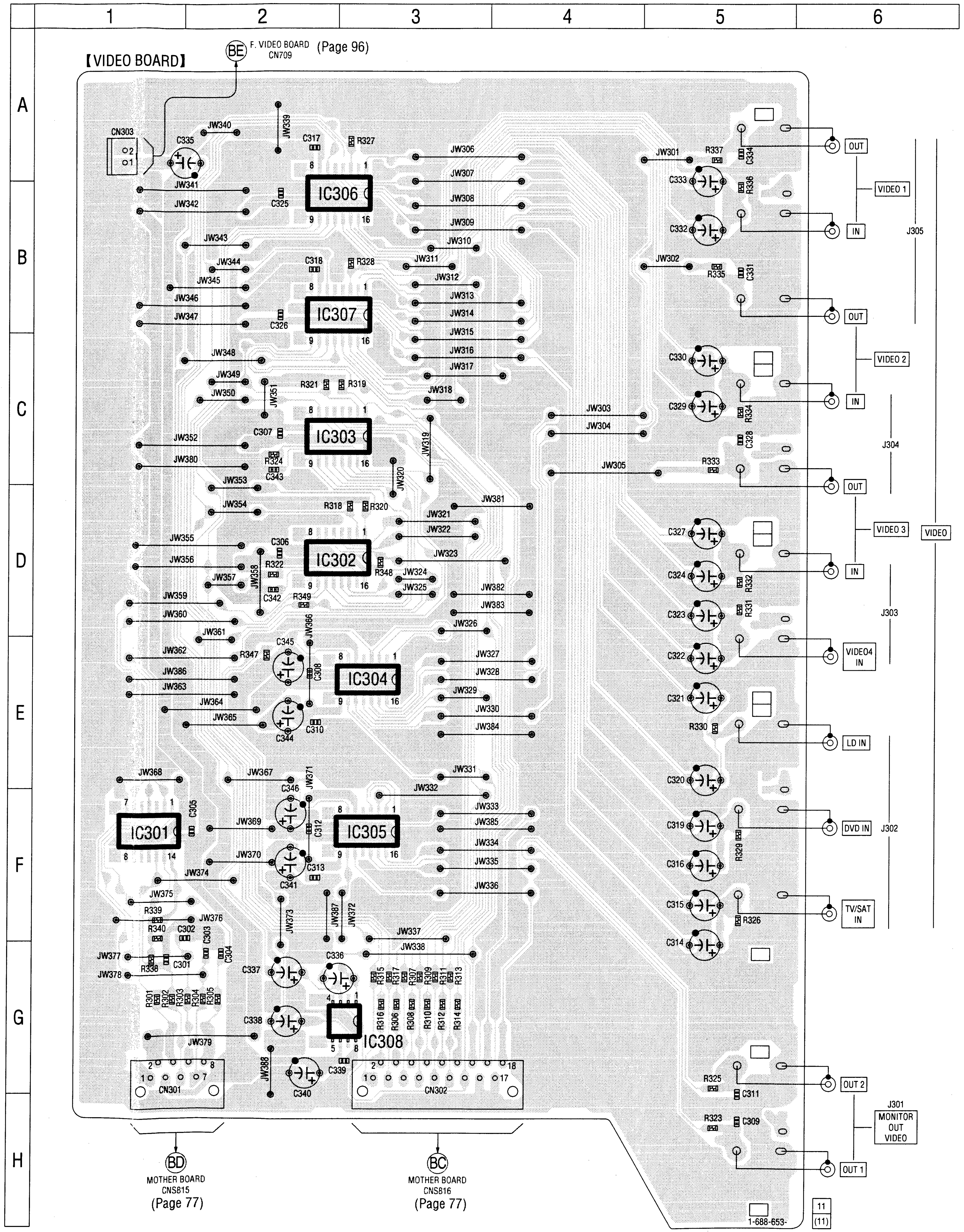
14
15
16
17
A
B
C
D
E
F
G
H
I
J

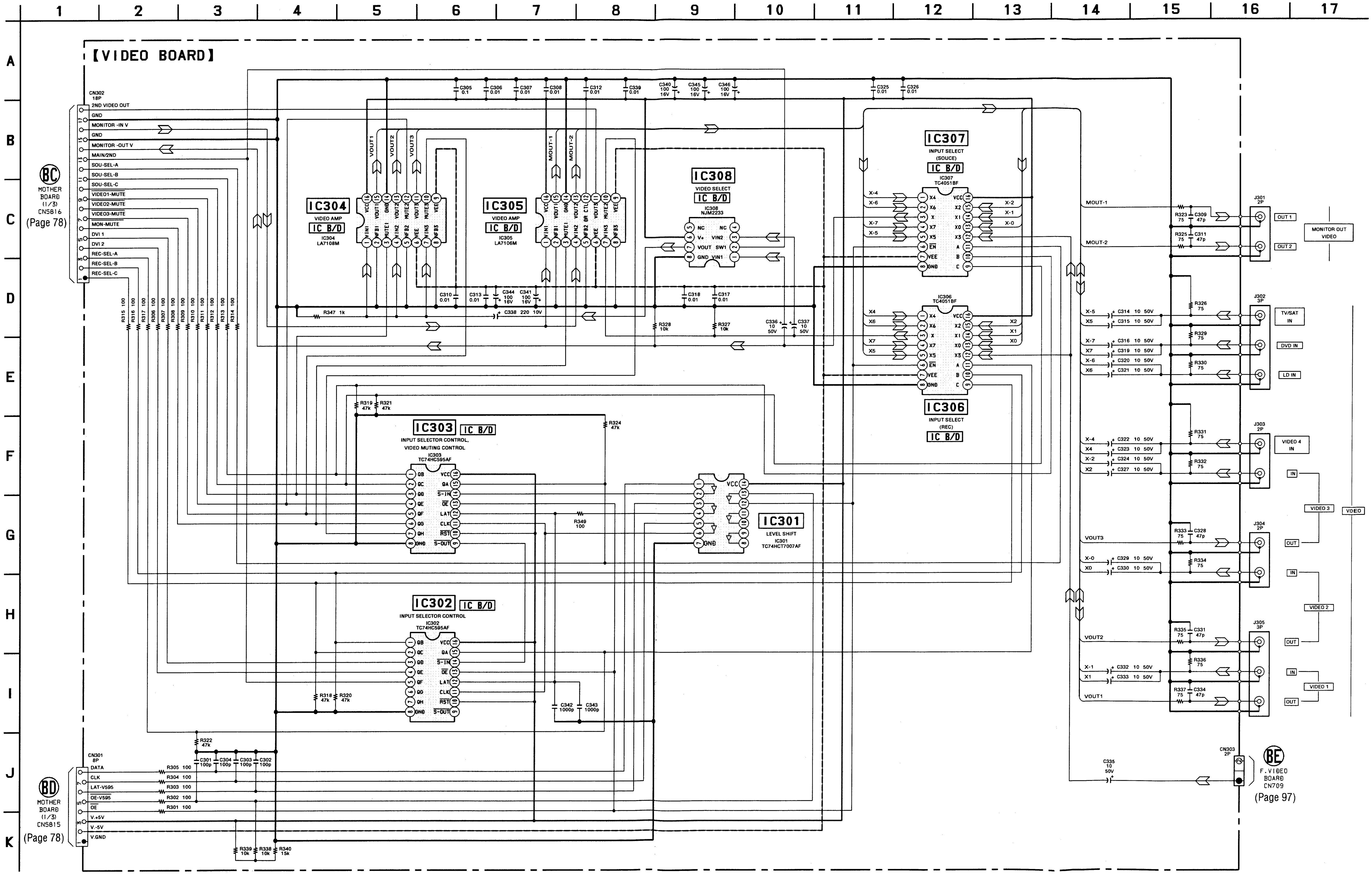
6-44. PRINTED WIRING BOARD – VIDEO Board – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC301	F-1
IC302	D-2
IC303	C-2
IC304	E-3
IC305	F-3
IC306	B-2
IC307	B-2
IC308	G-3


1
2
3
4
5
6
A
B
C
D
E
F
G
H
【VIDEO BOARD】
BE F. VIDEO BOARD CN709 (Page 96)
CN303
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
CN301
CN302
BD MOTHER BOARD CNS815 (Page 77)
BC MOTHER BOARD CNS816 (Page 77)
OUT
IN
VIDEO 1
J305
VIDEO 2
J304
VIDEO 3
VIDEO
J303
VIDEO4 IN
LD IN
DVD IN
J302
TV/SAT IN
OUT 2
J301 MONITOR OUT VIDEO
OUT 1
1-688-653-
11 (11)

6-45. SCHEMATIC DIAGRAM – VIDEO Board –


[VIDEO BOARD]
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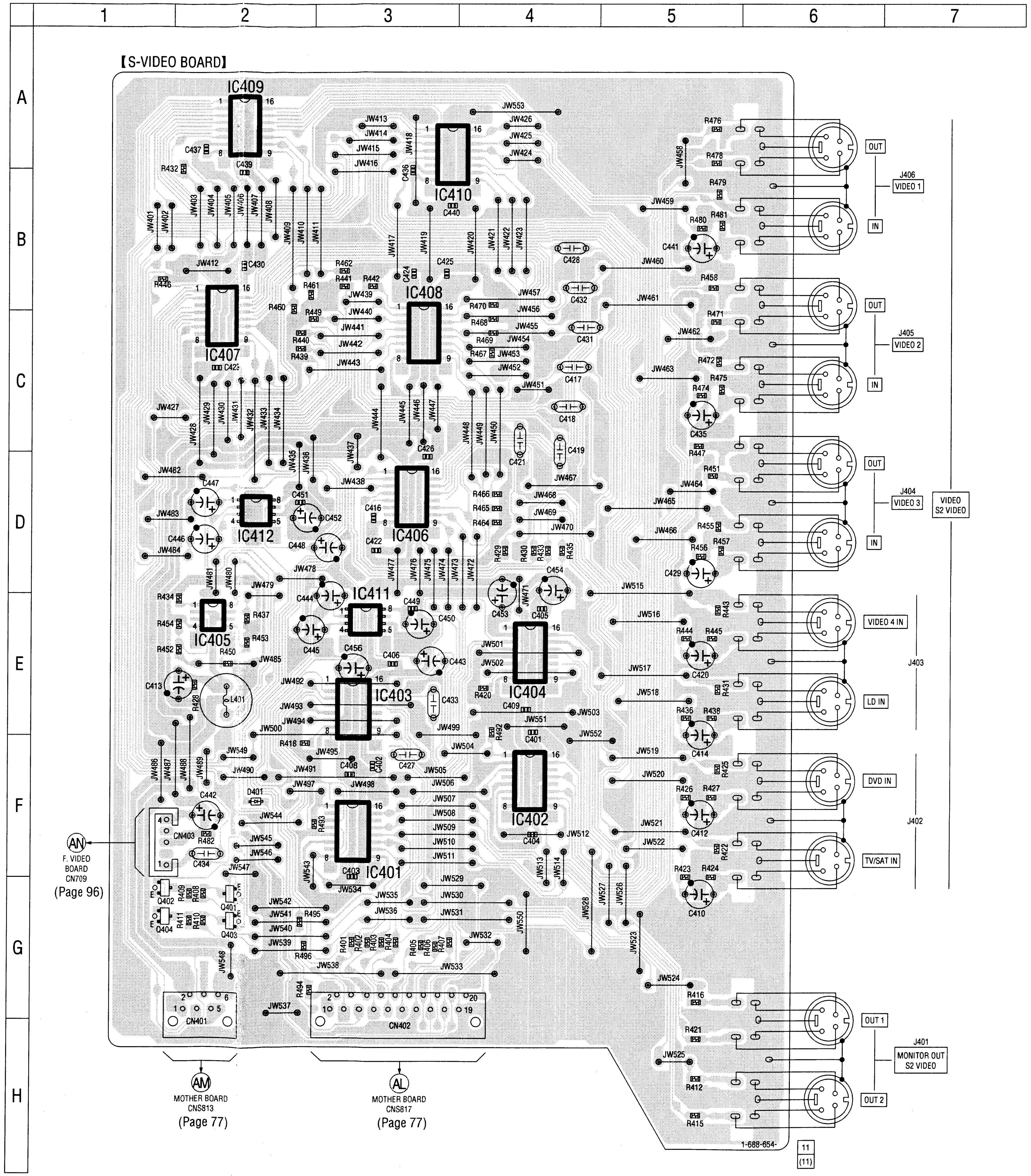
13
14
15
16
17
A
B
C
D
E
F
G
H
I
J
K
CN302
18P
2ND VIDEO OUT
GND
MONITOR -IN V
GND
MONITOR -OUT V
MAIN/2ND
SOU-SEL-A
SOU-SEL-B
SOU-SEL-C
VIDEO1-MUTE
VIDEO2-MUTE
VIDEO3-MUTE
MON-MUTE
DVI 1
DVI 2
REC-SEL-A
REC-SEL-B
REC-SEL-C
BC
MOTHER BOARD (1/3) CN5816
(Page 78)
IC304
VIDEO AMP
IC B/D
IC304 LA7108M
IC305
VIDEO AMP
IC B/D
IC305 LA7106M
VOUT1
VOUT2
VOUT3
MOUT-1
MOUT-2
IC308
VIDEO SELECT
IC B/D
IC308 NJM2233
NC
V+
VOUT
GND
VIN2
SW1
VIN1
IC307
INPUT SELECT (SOUCE)
IC B/D
IC307 TC4051BF
IC306 TC4051BF
IC306
INPUT SELECT (REC)
IC B/D
X-4
X-6
X-7
X-5
X4
X6
X7
X5
X-2
X-1
X-0
X2
X1
X0
C305 0.1
C306 0.01
C307 0.01
C308 0.01
C312 0.01
C339 0.01
C340 100 16V
C345 100 16V
C346 100 16V
C325 0.01
C326 0.01
C310 0.01
C313 0.01
C344 100 16V
C341 100 16V
C338 220 10V
R347 1k
C318 0.01
C317 0.01
R328 10k
R327 10k
C336 10 50V
C337 10 50V
R315 100
R316 100
R317 100
R306 100
R307 100
R308 100
R309 100
R310 100
R311 100
R312 100
R313 100
R314 100
R319 47k
R321 47k
R324 47k
IC303
IC B/D
INPUT SELECTOR CONTROL, VIDEO MUTING CONTROL
IC303 TC74HC595AF
R349 100
IC301
LEVEL SHIFT
IC301 TC74HCT7007AF
IC302
IC B/D
INPUT SELECTOR CONTROL
IC302 TC74HC595AF
R318 47k
R320 47k
C342 1000p
C343 1000p
R322 47k
C301 100p
C304 100p
C303 100p
C302 100p
CN301
8P
DATA
CLK
LAT-V595
OE-V595
OE
V.+5V
V.-5V
V.GND
R305 100
R304 100
R303 100
R302 100
R301 100
R339 10k
R338 10k
R340 15k
BD
MOTHER BOARD (1/3) CN5815
(Page 78)
MOUT-1
MOUT-2
R323 75
C309 47p
R325 75
C311 47p
J301 2P
OUT 1
OUT 2
MONITOR OUT VIDEO
C314 10 50V
C315 10 50V
C316 10 50V
C319 10 50V
C320 10 50V
C321 10 50V
R326 75
R329 75
R330 75
J302 3P
TV/SAT IN
DVD IN
LD IN
C322 10 50V
C323 10 50V
C324 10 50V
C327 10 50V
R331 75
R332 75
J303 2P
VIDEO 4 IN
IN
VIDEO 3
VIDEO
VOUT3
R333 75
C328 47p
J304 2P
OUT
C329 10 50V
C330 10 50V
R334 75
IN
VIDEO 2
VOUT2
R335 75
C331 47p
J305 3P
OUT
R336 75
C332 10 50V
C333 10 50V
IN
VIDEO 1
VOUT1
R337 75
C334 47p
OUT
C335 10 50V
CN303 2P
BE
F.VIDEO BOARD CN709
(Page 97)

6-46. PRINTED WIRING BOARD – S-VIDEO Board – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D401	F-2
IC401	F-3
IC402	F-4
IC403	E-3
IC404	E-4
IC405	E-2
IC406	D-3
IC407	C-2
IC408	C-3
IC409	A-2
IC410	A-3
IC411	E-3
IC412	D-2
Q401	G-2
Q402	G-1
Q403	G-2
Q404	G-1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A
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C
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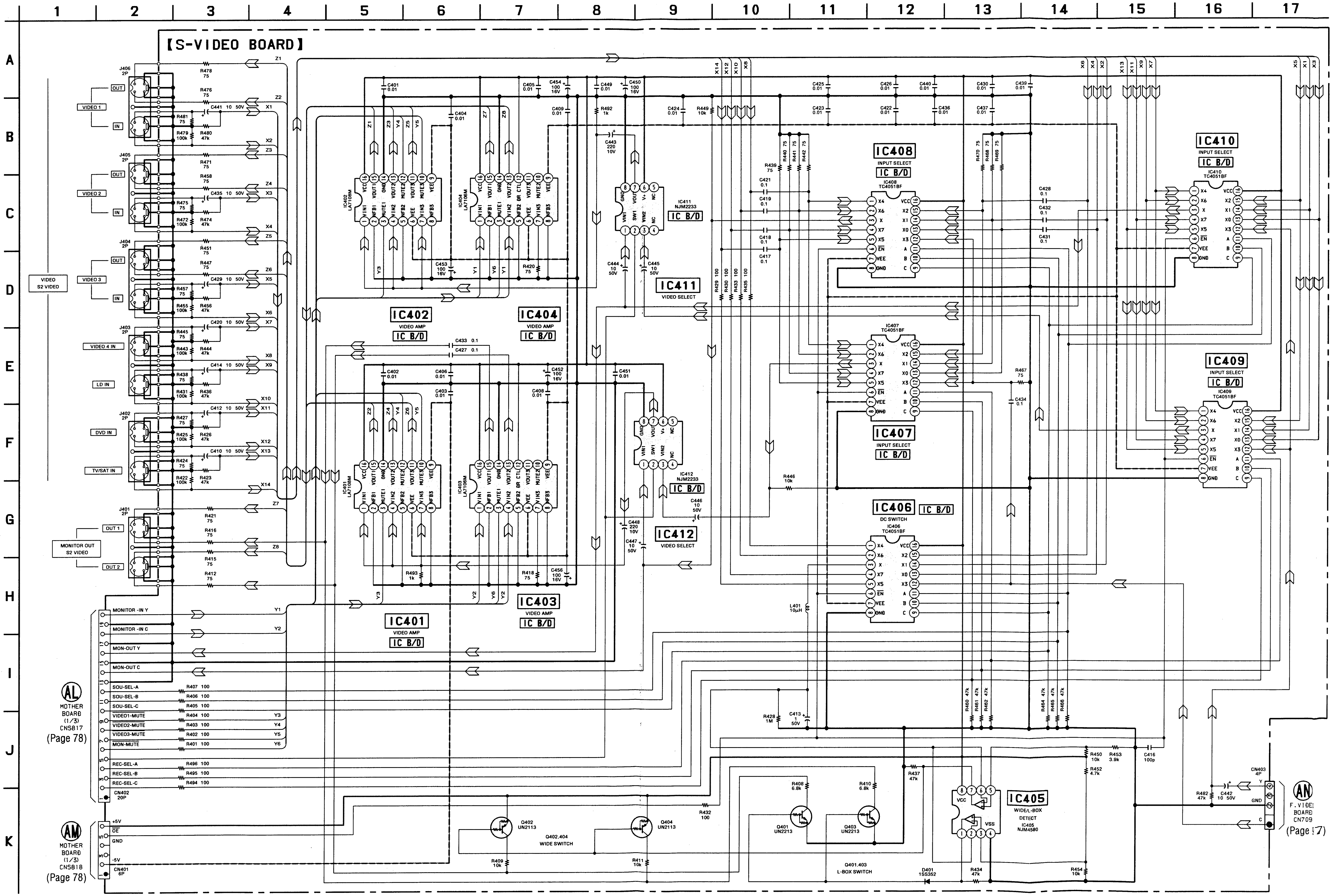
G
H
【S-VIDEO BOARD】
IC409
IC410
IC407
IC408
IC412
IC406
IC411
IC405
IC403
IC404
IC402
IC401
L401
D401
Q401
Q402
Q403
Q404
CN401
CN402
CN403
AN
F. VIDEO BOARD
CN709
(Page 96)
AM
MOTHER BOARD
CNS813
(Page 77)
AL
MOTHER BOARD
CNS817
(Page 77)
OUT
IN
J406
VIDEO 1
OUT
IN
J405
VIDEO 2
OUT
IN
J404
VIDEO 3
VIDEO
S2 VIDEO
VIDEO 4 IN
LD IN
J403
DVD IN
TV/SAT IN
J402
OUT 1
OUT 2
J401
MONITOR OUT
S2 VIDEO
1-688-654-
11
(11)

6-47. SCHEMATIC DIAGRAM – S-VIDEO Board –


【S-VIDEO BOARD】
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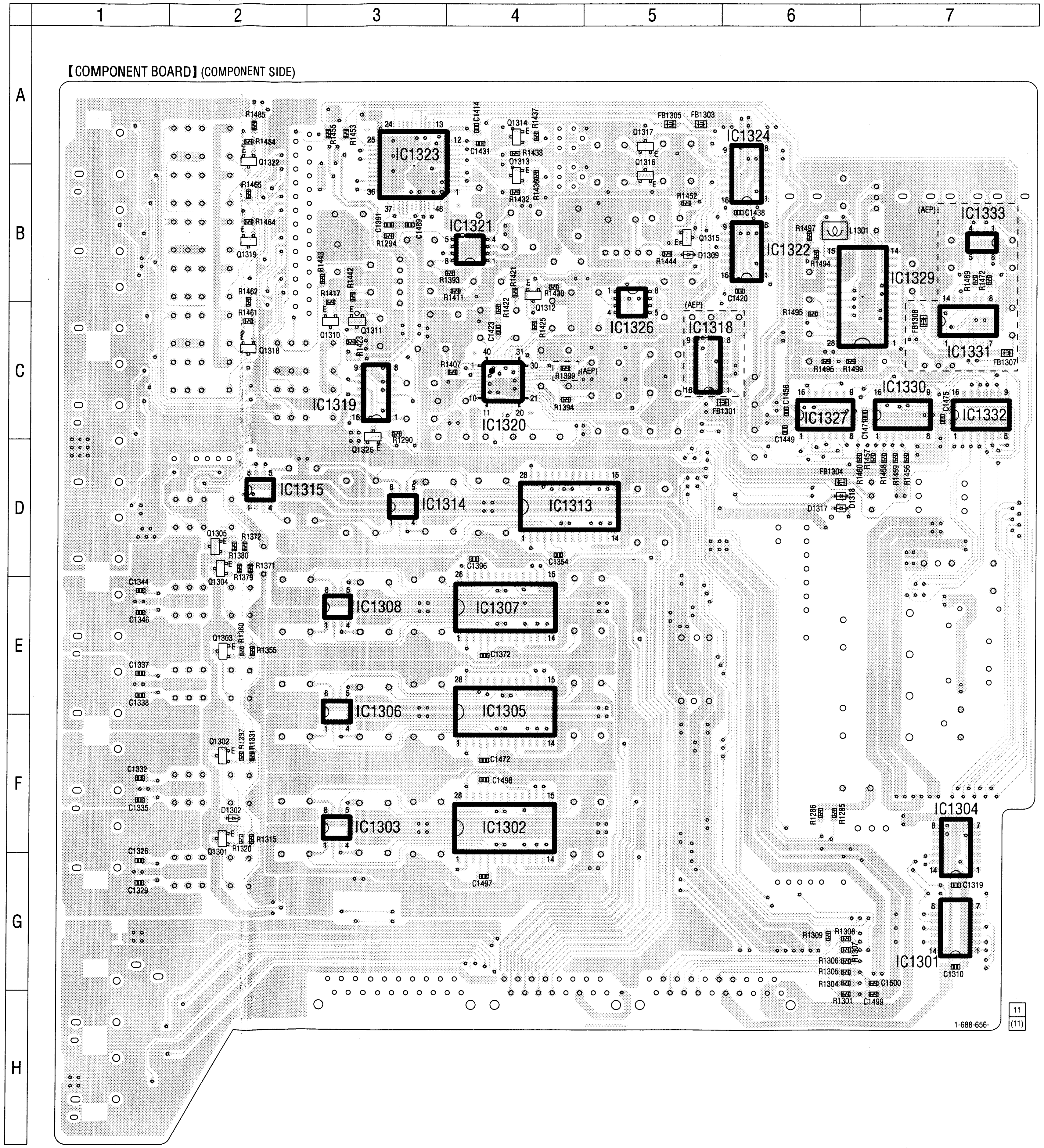
12
13
14
15
16
17
A
B
C
D
E
F
G
H
I
J
K
J406 2P
J405 2P
J404 2P
J403 2P
J402 2P
J401 2P
OUT
IN
VIDEO 1
VIDEO 2
VIDEO 3
VIDEO S2 VIDEO
VIDEO 4 IN
LD IN
DVD IN
TV/SAT IN
OUT 1
OUT 2
MONITOR OUT S2 VIDEO
IC402
VIDEO AMP
IC B/D
IC404
VIDEO AMP
IC B/D
IC401
VIDEO AMP
IC B/D
IC403
VIDEO AMP
IC B/D
IC411
NJM2233
VIDEO SELECT
IC B/D
IC412
NJM2233
VIDEO SELECT
IC B/D
IC408
INPUT SELECT
IC B/D
TC4051BF
IC407
TC4051BF
INPUT SELECT
IC B/D
IC406
IC B/D
DC SWITCH
TC4051BF
IC410
INPUT SELECT
IC B/D
TC4051BF
IC409
INPUT SELECT
IC B/D
TC4051BF
IC405
WIDE/L-BOX DETECT
NJM4580
Q402 UN2113
Q404 UN2113
Q402,404 WIDE SWITCH
Q401 UN2213
Q403 UN2213
Q401,403 L-BOX SWITCH
D401 1SS352
L401 10µH
MONITOR -IN Y
MONITOR -IN C
MON-OUT Y
MON-OUT C
SOU-SEL-A
SOU-SEL-B
SOU-SEL-C
VIDEO1-MUTE
VIDEO2-MUTE
VIDEO3-MUTE
MON-MUTE
REC-SEL-A
REC-SEL-B
REC-SEL-C
CN402 20P
AL
MOTHER BOARD (1/3) CN5817
(Page 78)
+5V
DE
GND
-5V
CN401 6P
AM
MOTHER BOARD (1/3) CN5818
(Page 78)
CN403 4P
Y
GND
C
AN
F.VIDEO BOARD CN709
(Page 77)

6-48. PRINTED WIRING BOARD – COMPONENT Section (Component Side) – • See page 35 for Circuit Boards Location.

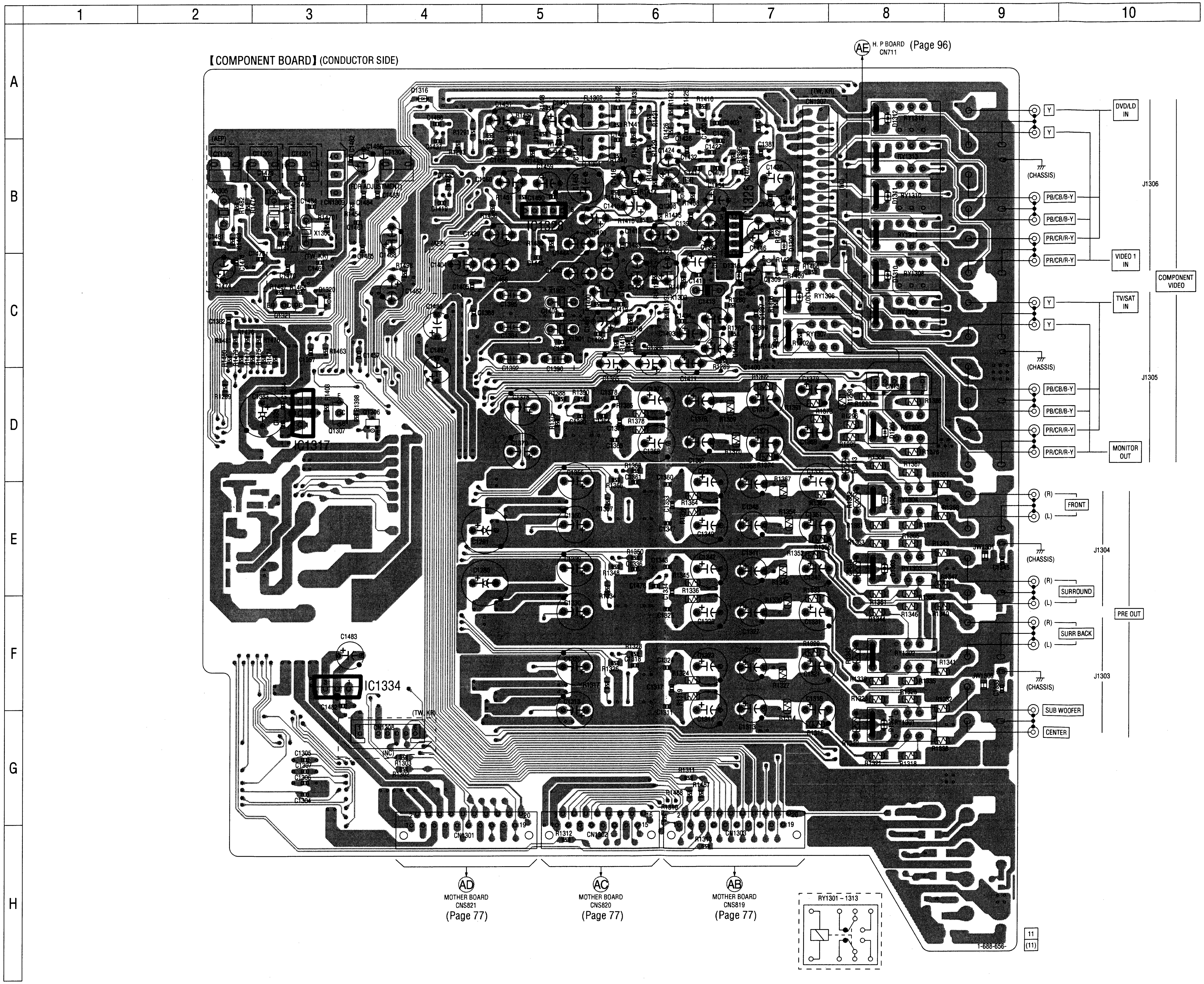
LF :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D1302	F-2
D1309	B-5
D1317	D-6
D1318	D-6
IC1301	G-7
IC1302	F-4
IC1303	F-3
IC1304	F-7
IC1305	E-4
IC1306	E-3
IC1307	E-4
IC1308	E-3
IC1313	D-4
IC1314	D-3
IC1315	D-2
IC1318	C-5
IC1319	C-3
IC1320	C-4
IC1321	B-4
IC1322	B-6
IC1323	B-3
IC1324	B-6
IC1326	C-5
IC1327	C-6
IC1329	B-7
IC1330	C-7
IC1331	C-7
IC1332	C-7
IC1333	B-7
Q1301	F-2
Q1302	F-2
Q1303	E-2
Q1304	D-2
Q1305	D-2
Q1310	C-3
Q1311	C-3
Q1312	B-4
Q1313	B-4
Q1314	A-4
Q1315	B-5
Q1316	B-5
Q1317	A-5
Q1318	C-2
Q1319	B-2
Q1322	A-2
Q1326	C-3


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
【COMPONENT BOARD】(COMPONENT SIDE)
IC1323
IC1324
IC1321
IC1322
IC1333
IC1329
IC1326
IC1318
IC1331
IC1319
IC1320
IC1330
IC1327
IC1332
IC1315
IC1314
IC1313
IC1308
IC1307
IC1306
IC1305
IC1303
IC1302
IC1304
IC1301
(AEP)
1-688-656-
11
(11)

6-49. PRINTED WIRING BOARD – COMPONENT Section (Conductor Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.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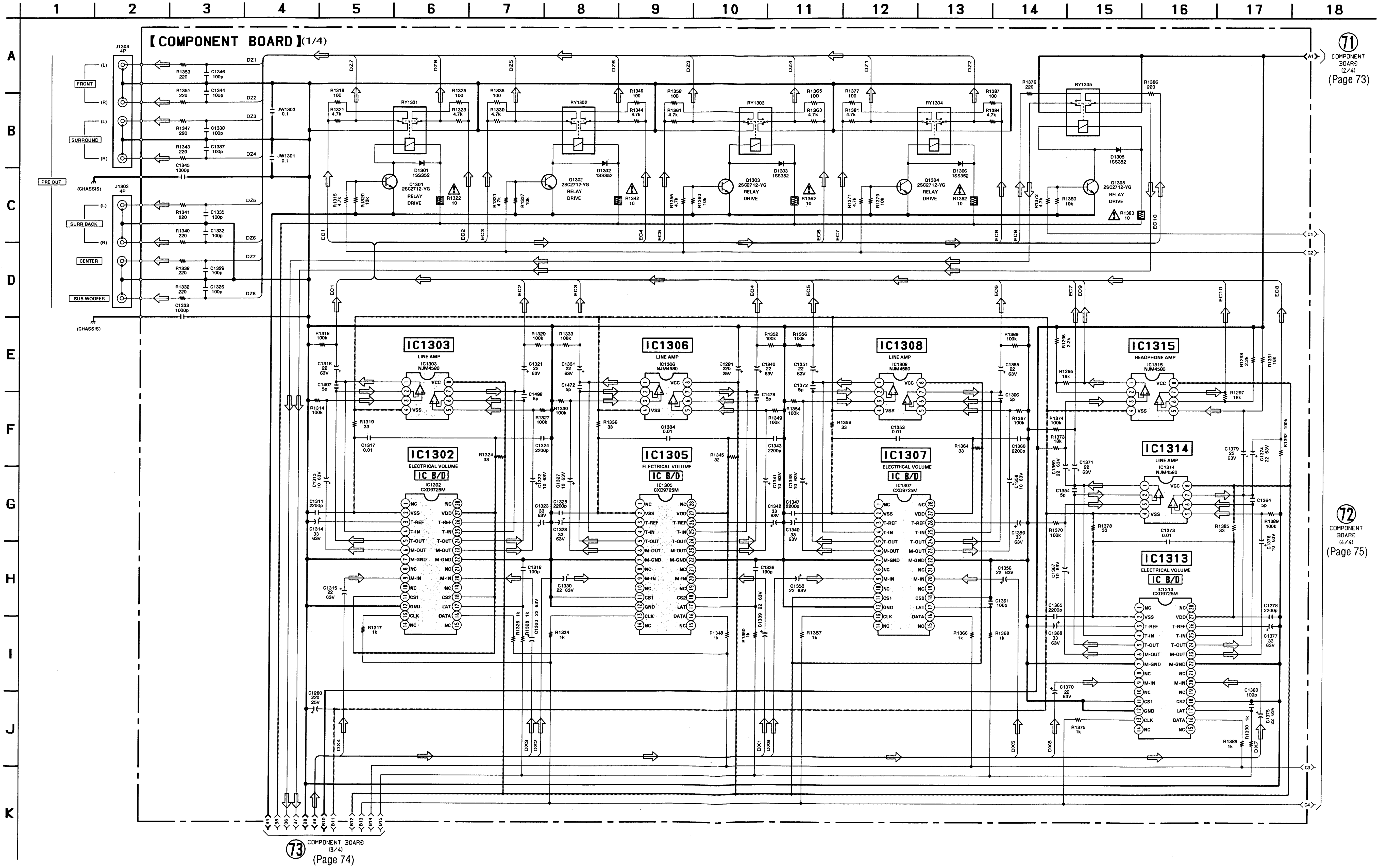
【COMPONENT BOARD】(CONDUCTOR SIDE)
AE H. P BOARD CN711 (Page 96)
Y
Y
DVD/LD IN
(CHASSIS)
PB/CB/B-Y
PB/CB/B-Y
PR/CR/R-Y
PR/CR/R-Y
VIDEO 1 IN
J1306
COMPONENT VIDEO
Y
Y
TV/SAT IN
(CHASSIS)
J1305
PB/CB/B-Y
PB/CB/B-Y
PR/CR/R-Y
PR/CR/R-Y
MONITOR OUT
(R)
(L)
FRONT
(CHASSIS)
J1304
(R)
(L)
SURROUND
PRE OUT
(R)
(L)
SURR BACK
(CHASSIS)
J1303
SUB WOOFER
CENTER
IC1317
IC1334
CN1301
CN1302
CN1303
AD MOTHER BOARD CNS821 (Page 77)
AC MOTHER BOARD CNS820 (Page 77)
AB MOTHER BOARD CNS819 (Page 77)
RY1301 – 1313
1-688-656-
11
(11)

- **Semiconductor Location**

Ref. No.	Location
D1301	G-8
D1303	E-8
D1305	D-8
D1306	E-8
D1307	C-7
D1308	B-7
D1310	C-8
D1311	B-8
D1312	A-8
D1315	C-7
D1316	A-4
IC1317	D-3
IC1325	B-7
IC1328	B-5
IC1334	F-3
Q1306	D-4
Q1307	D-3
Q1308	B-6
Q1309	C-7
Q1320	C-3
Q1321	C-3

6-50. SCHEMATIC DIAGRAM – COMPONENT Section (1/4) –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D
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F
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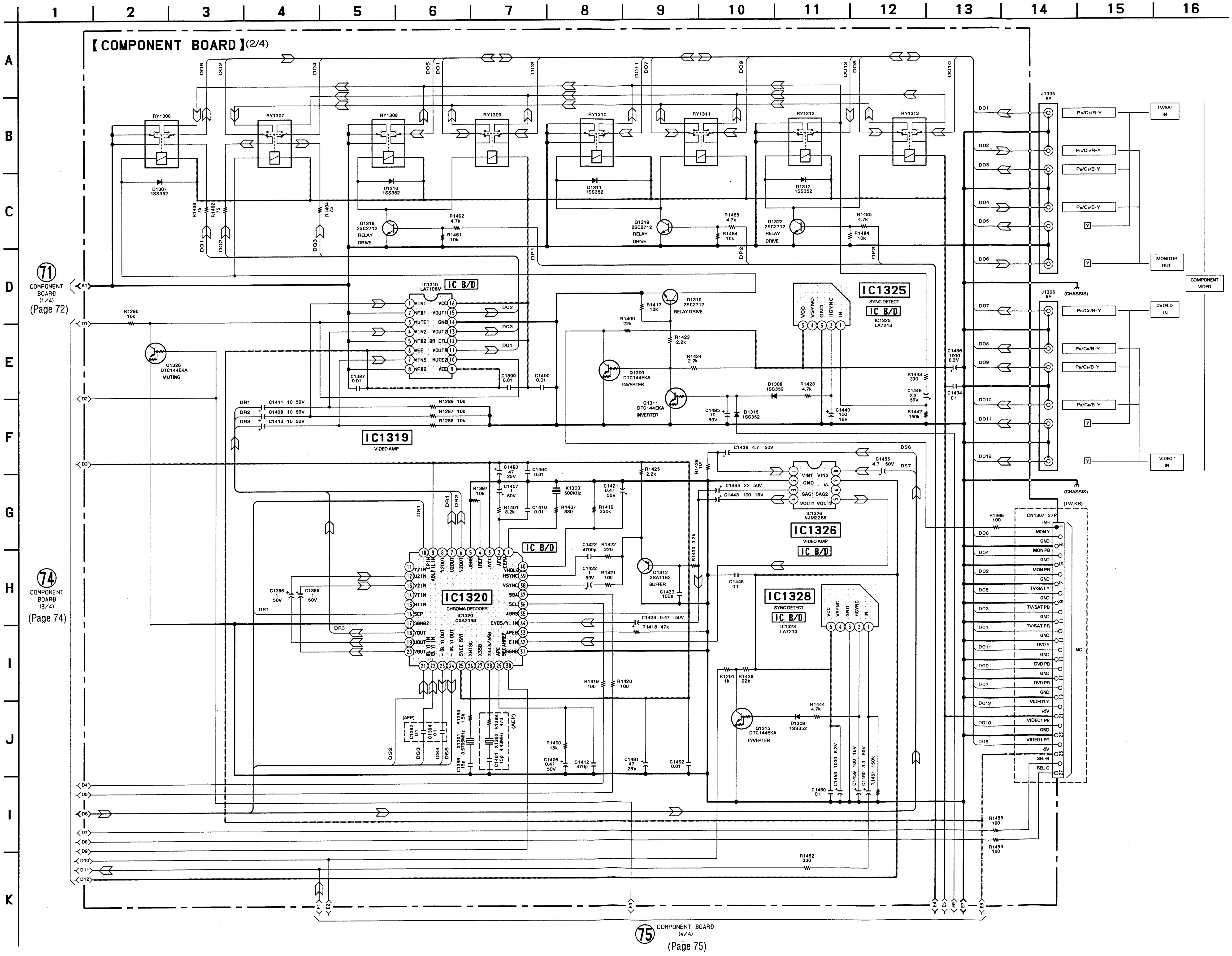
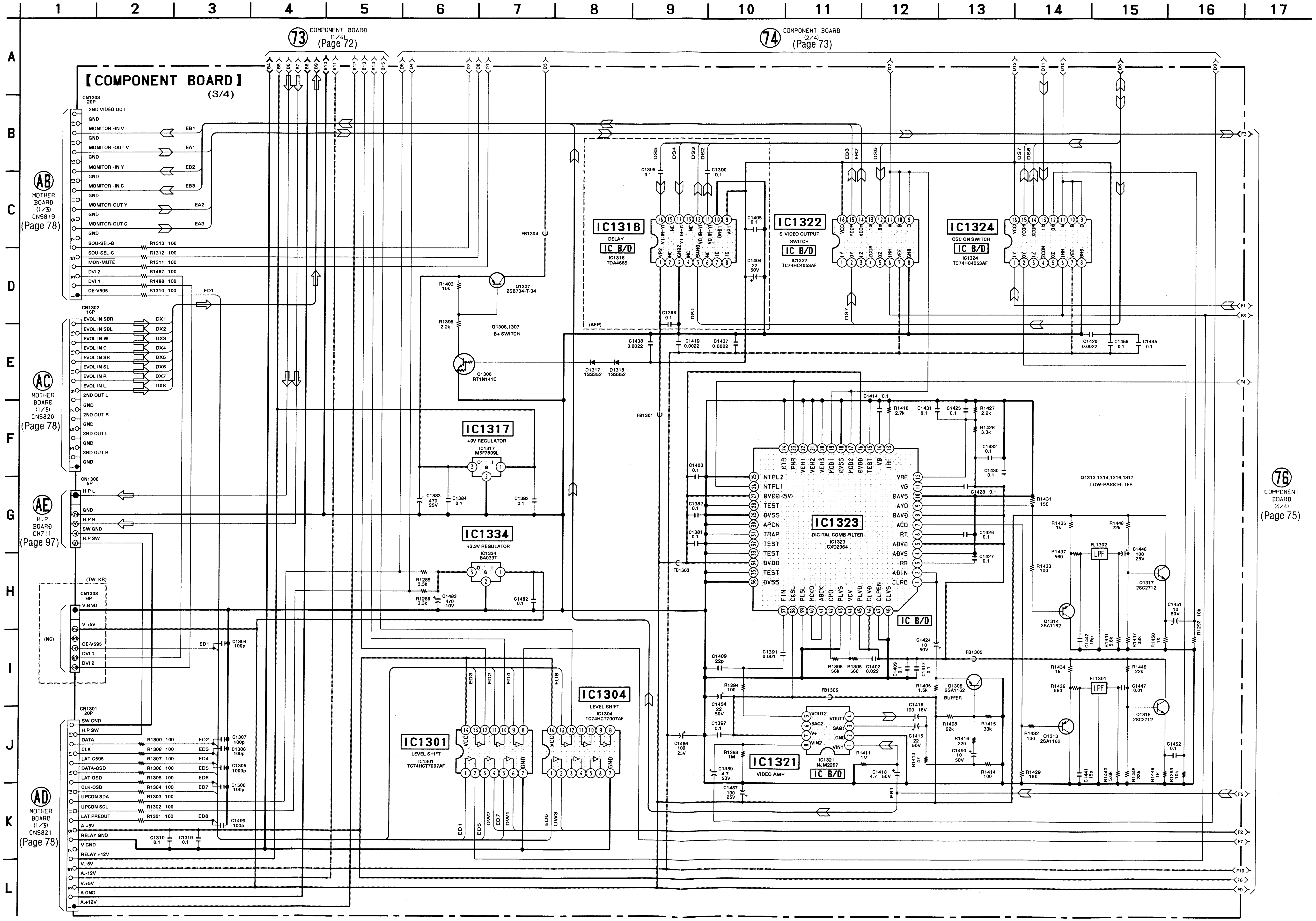
K
[COMPONENT BOARD](1/4)
J1304 4P
FRONT
SURROUND
PRE OUT
(CHASSIS)
J1303 4P
SURR BACK
CENTER
SUB WOOFER
RY1301
RY1302
RY1303
RY1304
RY1305
Q1301 2SC2712-YG RELAY DRIVE
Q1302 2SC2712-YG RELAY DRIVE
Q1303 2SC2712-YG RELAY DRIVE
Q1304 2SC2712-YG RELAY DRIVE
Q1305 2SC2712-YG RELAY DRIVE
D1301 1SS352
D1302 1SS352
D1303 1SS352
D1305 1SS352
D1306 1SS352
JW1303 0.1
JW1301 0.1
IC1303 LINE AMP IC1303 NJM4580
IC1302 ELECTRICAL VOLUME IC B/D IC1302 CXD9725M
IC1306 LINE AMP IC1306 NJM4580
IC1305 ELECTRICAL VOLUME IC B/D IC1305 CXD9725M
IC1308 LINE AMP IC1308 NJM4580
IC1307 ELECTRICAL VOLUME IC B/D IC1307 CXD9725M
IC1315 HEADPHONE AMP IC1315 NJM4580
IC1314 LINE AMP IC1314 NJM4580
IC1313 ELECTRICAL VOLUME IC B/D IC1313 CXD9725M
NC
VSS
T-REF
T-IN
T-OUT
M-OUT
M-GND
M-IN
CS1
GND
CLK
VDD
CS2
LAT
DATA
VCC
DZ1
DZ2
DZ3
DZ4
DZ5
DZ6
DZ7
DZ8
EC1
EC2
EC3
EC4
EC5
EC6
EC7
EC8
EC9
EC10
DX1
DX2
DX3
DX4
DX5
DX6
DX7
DX8
A1
C1
C2
C3
C4
(71) COMPONENT BOARD (2/4) (Page 73)
(72) COMPONENT BOARD (4/4) (Page 75)
(73) COMPONENT BOARD (3/4) (Page 74)

6-51. SCHEMATIC DIAGRAM – COMPONENT Section (2/4) –


【COMPONENT BOARD】(2/4)
RY1306
RY1307
RY1308
RY1309
RY1310
RY1311
RY1312
RY1313
D1307 1SS352
D1310 1SS352
D1311 1SS352
D1312 1SS352
Q1318 2SC2712 RELAY DRIVE
Q1319 2SC2712 RELAY DRIVE
Q1322 2SC2712 RELAY DRIVE
R1462 4.7k
R1461 10k
R1465 4.7k
R1464 10k
R1485 4.7k
R1484 10k
R1406 75
R1402 75
R1404 75
71 COMPONENT BOARD (1/4) (Page 72)
74 COMPONENT BOARD (3/4) (Page 74)
75 COMPONENT BOARD (4/4) (Page 75)
IC1319 LA7106M IC B/D
IC1319 VIDEO AMP
VIN1 VCC NFB1 VOUT1 MUTE1 GND VIN2 VOUT2 NFB2 DR CTL VEE VOUT3 VIN3 MUTE2 NFB3 VEE
R1290 10k
Q1326 DTC144EKA MUTING
C1387 0.01
C1399 0.01
C1400 0.01
C1411 10 50V
C1408 10 50V
C1413 10 50V
R1289 10k
R1287 10k
R1288 10k
Q1310 2SC2712 RELAY DRIVE
R1417 10k
R1409 22k
R1423 2.2k
R1424 2.2k
Q1309 DTC144EKA INVERTER
Q1311 DTC144EKA INVERTER
D1308 1SS352
R1428 4.7k
C1495 10 50V
D1315 1SS352
C1440 100 16V
IC1325 SYNC DETECT IC B/D
IC1325 LA7213
VCC VSYNC GND HSYNC IN
C1436 1000 6.3V
C1434 0.1
R1443 330
C1446 3.3 50V
R1442 150k
J1305 6P
J1306 6P
PB/CB/R-Y
PR/CR/R-Y
PR/CR/B-Y
PB/CB/B-Y
Y
TV/SAT IN
MONITOR OUT
COMPONENT VIDEO
DVD/LD IN
VIDEO 1 IN
(CHASSIS)
C1439 4.7 50V
DS6
DS7
C1455 4.7 50V
R1439 1M
R1425 2.2k
C1444 22 50V
C1443 100 16V
VIN1 VIN2 GND V+ SAG1 SAG2 VOUT1 VOUT2
IC1326 NJM2268
IC1326 VIDEO AMP IC B/D
C1493 47 25V
C1494 0.01
C1407 1 50V
R1397 10k
R1401 8.2k
C1410 0.01
R1407 330
X1303 500KHz
C1421 0.47 50V
R1412 330k
C1423 4700p
R1422 220
C1422 1 50V
R1421 100
Q1312 2SA1162 BUFFER
C1433 100p
R1430 3.3k
C1445 0.1
IC1328 SYNC DETECT IC B/D
IC1328 LA7213
IC1320 CHROMA DECODER
IC1320 CXA2199
IC B/D
Y2IN Y2OUT V2IN HTIM VTIM SCP SGND2 YOUT UOUT VOUT SVCC X358 X443/358 APC SECAMREF SGND CIN CVBS/Y IN ADRS SDA SCL VSYNC HSYNC VHOLD AFC VCC IREF JGND V1OUT V2OUT Y1OUT ABLFILIN SPTLIN
C1386 1 50V
C1385 1 50V
DS1 DS2 DS3 DS4 DS5 DR1 DR2 DR3
C1429 0.47 50V
R1418 47k
R1419 100
R1420 100
(AEP)
C1392 0.1
C1394 0.1
R1394 1.5k
X1301 3.579545MHz
X1302 4.43MHz
R1399 470
C1398 15p
C1401 15p
R1400 15k
C1406 0.47 50V
C1412 470p
C1491 47 25V
C1492 0.01
R1291 1k
R1438 22k
Q1315 DTC144EKA INVERTER
R1444 4.7k
D1309 1SS352
C1453 1000 6.3V
C1459 100 16V
C1460 3.3 50V
R1451 150k
C1450 0.1
R1466 100
CN1307 27P
INH MON Y GND MON PB GND MON PR GND TV/SAT Y GND TV/SAT PB GND TV/SAT PR GND DVD Y GND DVD PB GND DVD PR GND VIDEO1 Y +5V VIDEO1 PB GND VIDEO1 PR -5V SEL-B SEL-C
(TW,KR)
NC
R1455 100
R1453 100
R1452 330
DO1 DO2 DO3 DO4 DO5 DO6 DO7 DO8 DO9 DO10 DO11 DO12
DQ1 DQ2 DQ3
DP1 DP2 DP3
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
E1 E2 E3 E4 E5 E6 E7 E8
A1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J I K

6-52. SCHEMATIC DIAGRAM – COMPONENT Section (3/4) –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J
K
L
[COMPONENT BOARD] (3/4)
73 COMPONENT BOARD (1/4) (Page 72)
74 COMPONENT BOARD (2/4) (Page 73)
76 COMPONENT BOARD (4/4) (Page 75)
AB MOTHER BOARD (1/3) CN5819 (Page 78)
AC MOTHER BOARD (1/3) CN5820 (Page 78)
AE H.P BOARD CN711 (Page 97)
AD MOTHER BOARD (1/3) CN5821 (Page 78)
CN1303 20P
2ND VIDEO OUT
GND
MONITOR -IN V
MONITOR -OUT V
MONITOR -IN Y
MONITOR -IN C
MONITOR-OUT Y
MONITOR-OUT C
SOU-SEL-B
SOU-SEL-C
MON-MUTE
DVI 2
DVI 1
OE-V595
EB1
EA1
EB2
EB3
EA2
EA3
ED1
R1313 100
R1312 100
R1311 100
R1487 100
R1488 100
R1310 100
CN1302 16P
EVOL IN SBR
EVOL IN SBL
EVOL IN W
EVOL IN C
EVOL IN SR
EVOL IN SL
EVOL IN R
EVOL IN L
2ND OUT L
2ND OUT R
3RD OUT L
3RD OUT R
DX1
DX2
DX3
DX4
DX5
DX6
DX7
DX8
CN1306 5P
H.P L
H.P R
SW GND
H.P SW
(TW, KR)
CN1308 6P
V.GND
V.+5V
(NC)
CN1301 20P
SW GND
H.P SW
DATA
CLK
LAT-C595
DATA-OSD
LAT-OSD
CLK-OSD
UPCON SDA
UPCON SCL
LAT PREOUT
A.+5V
RELAY GND
V.GND
RELAY +12V
V.-5V
A.-12V
V.+5V
A.GND
A.+12V
R1309 100
R1308 100
R1307 100
R1306 100
R1305 100
R1304 100
R1303 100
R1302 100
R1301 100
ED2
ED3
ED4
ED5
ED6
ED7
ED8
C1307 100p
C1306 100p
C1305 1000p
C1500 100p
C1499 100p
C1304 100p
C1310 0.1
C1319 0.1
IC1317 +9V REGULATOR IC1317 M5F7809L
C1383 470 25V
C1384 0.1
C1393 0.1
IC1334 +3.3V REGULATOR IC1334 BA033T
R1285 3.3k
R1286 3.3k
C1483 470 10V
C1482 0.1
IC1301 LEVEL SHIFT IC1301 TC74HCT7007AF
IC1304 LEVEL SHIFT IC1304 TC74HCT7007AF
DW1
DW2
DW3
R1403 10k
R1398 2.2k
Q1307 2SB734-T-34
Q1306,1307 B+ SWITCH
Q1306 RT1N141C
D1317 1SS352
D1318 1SS352
FB1304
FB1301
FB1303
FB1305
FB1306
IC1318 DELAY IC B/D IC1318 TDA4665
(AEP)
C1395 0.1
C1390 0.1
C1405 0.1
C1404 22 50V
C1388 0.1
C1438 0.0022
C1419 0.0022
C1437 0.0022
IC1322 S-VIDEO OUTPUT SWITCH IC B/D IC1322 TC74HC4053AF
IC1324 OSC ON SWITCH IC B/D IC1324 TC74HC4053AF
C1420 0.0022
C1458 0.1
C1435 0.1
IC1323 DIGITAL COMB FILTER IC1323 CXD2064
IC B/D
DTR PNR VEH1 VEH2 VEH3 MOD1 DVSS MOD2 DVDD TEST VB IRF
NTPL2 NTPL1 DVDD (5V) TEST DVSS APCN TRAP TEST TEST DVDD TEST DVSS
VRF VG DAVS AYO DAVD ACO RT ADVD ADVS RB ADIN CLPO
FIN CK5L PL5L MCKO ADCK CPO PLVS VCV PLVD CLVD CLPEN CLVS
C1414 0.1
R1410 2.7k
C1431 0.1
C1425 0.1
R1427 2.2k
R1426 3.3k
C1432 0.1
C1430 0.1
C1428 0.1
C1403 0.1
C1382 0.1
C1381 0.1
C1426 0.1
C1427 0.1
R1431 150
C1424 10 50V
C1391 0.001
C1489 22p
R1396 56k
R1395 560
C1402 0.022
C1409 0.1
C1417 0.1
R1294 100
C1454 22 50V
C1397 0.1
C1486 100 25V
R1393 1M
C1389 4.7 50V
C1487 100 25V
IC1321 VIDEO AMP IC B/D IC1321 NJM2267
VOUT2 VOUT1 SAG2 SAG1 V+ GND VIN2 VIN1
R1411 1M
C1418 4.7 50V
C1416 100 16V
C1415 22 50V
R1413 47
R1405 1.5k
Q1308 2SA1162 BUFFER
R1408 22k
R1415 33k
R1416 220
C1490 10 50V
R1414 100
Q1313,1314,1316,1317 LOW-PASS FILTER
R1435 1k
R1448 22k
R1437 560
FL1302 LPF
C1448 100 25V
R1433 100
Q1317 2SC2712
Q1314 2SA1162
C1451 10 50V
R1292 10k
C1442 15p
R1441 5.6k
R1447 33k
R1450 1k
R1434 1k
R1446 22k
R1436 560
FL1301 LPF
C1447 0.01
Q1316 2SC2712
R1432 100
Q1313 2SA1162
C1452 0.1
R1429 150
C1441 15p
R1440 5.6k
R1445 33k
R1449 1k
R1293 10k
F1
F2
F3
F4
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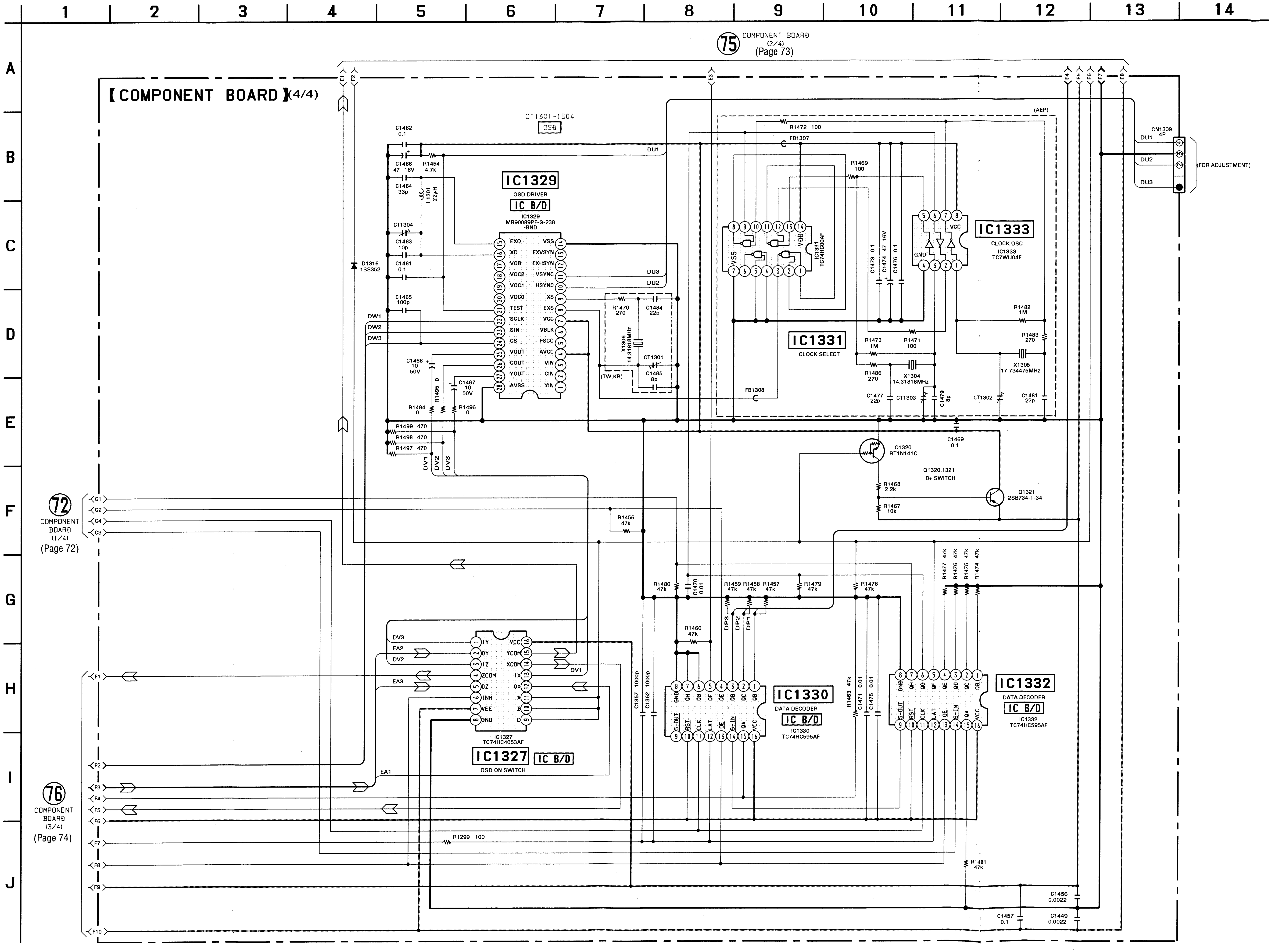
F6
F7
F8
F9
F10

6-53. SCHEMATIC DIAGRAM – COMPONENT Section (4/4) –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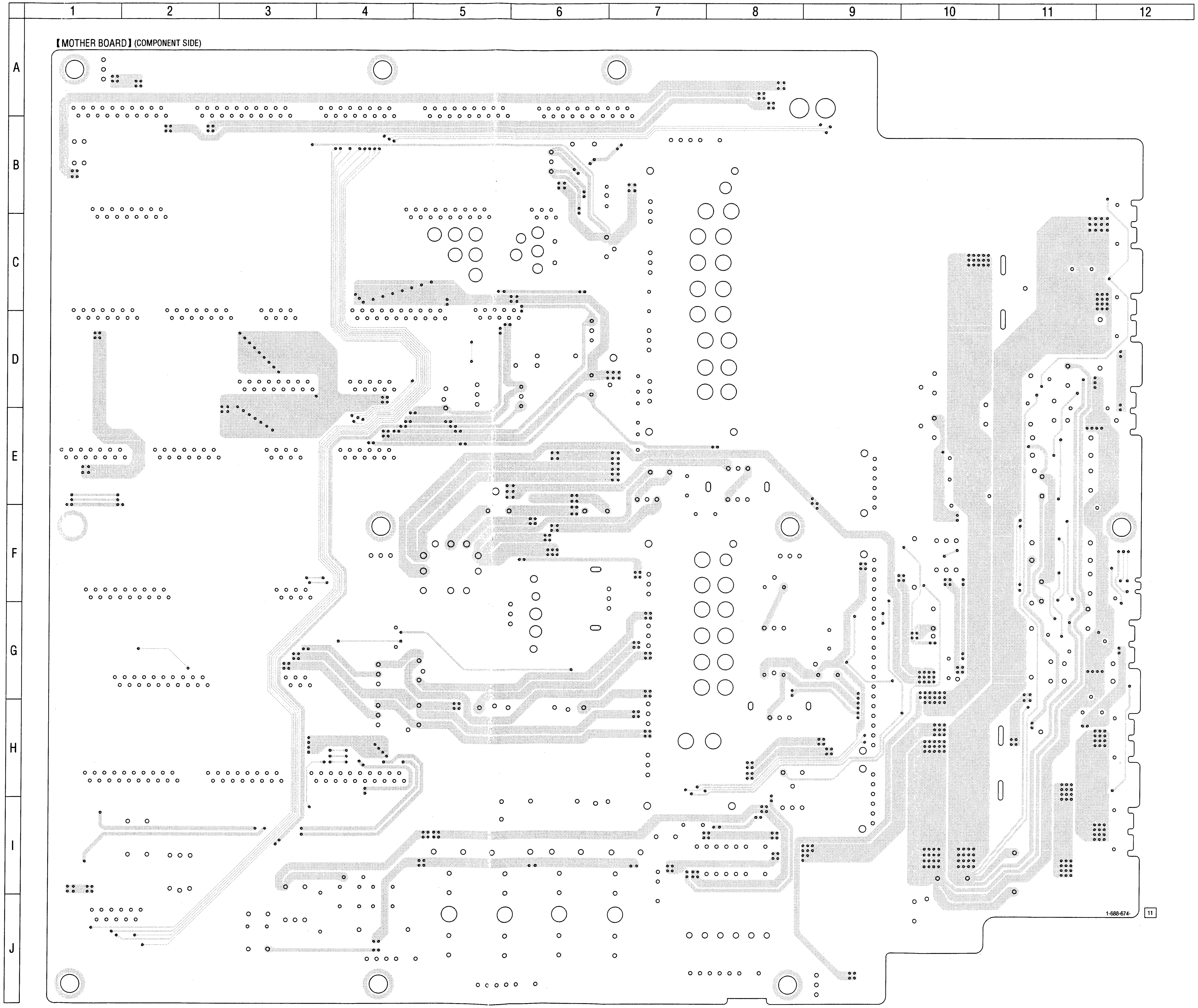
【COMPONENT BOARD】(4/4)
75 COMPONENT BOARD (2/4) (Page 73)
72 COMPONENT BOARD (1/4) (Page 72)
76 COMPONENT BOARD (3/4) (Page 74)
CT1301-1304 OSD
IC1329
OSD DRIVER
IC B/D
IC1329 MB90089PF-G-238-BND
EXD
XD
VOB
VOC2
VOC1
VOCO
TEST
SCLK
SIN
CS
VOUT
COUT
YOUT
AVSS
VSS
EXVSYN
EXHSYN
VSYNC
HSYNC
XS
EXS
VCC
VBLK
FSCO
AVCC
VIN
CIN
YIN
IC1331
CLOCK SELECT
IC1331 TC74HC00AF
VDD
VSS
IC1333
CLOCK OSC
IC1333 TC7WU04F
GND
VCC
(AEP)
CN1309 4P
DU1
DU2
DU3
(FOR ADJUSTMENT)
IC1327
OSD ON SWITCH
IC B/D
IC1327 TC74HC4053AF
1Y
0Y
1Z
ZCOM
0Z
INH
VEE
GND
VCC
YCOM
XCOM
1X
0X
A
B
C
IC1330
DATA DECODER
IC B/D
IC1330 TC74HC595AF
IC1332
DATA DECODER
IC B/D
IC1332 TC74HC595AF
GND
QH
QG
QF
QE
QD
QC
QB
S-OUT
RST
CLK
LAT
OE
S-IN
QA
VCC
Q1320 RT1N141C
Q1320,1321 B+ SWITCH
Q1321 2SB734-T-34
X1304 14.31818MHz
X1305 17.734475MHz
X1306 14.31818MHz
(TW,KR)
D1316 1SS352
L1301 22μH
C1462 0.1
C1466 47 16V
R1454 4.7k
C1464 33p
CT1304
C1463 10p
C1461 0.1
C1465 100p
C1468 10 50V
C1467 10 50V
R1495 0
R1494 0
R1496 0
R1499 470
R1498 470
R1497 470
R1470 270
C1484 22p
CT1301
C1485 8p
R1472 100
FB1307
FB1308
R1469 100
C1473 0.1
C1474 47 16V
C1476 0.1
R1473 1M
R1471 100
R1486 270
C1477 22p
CT1303
C1479 8p
CT1302
C1481 22p
R1482 1M
R1483 270
C1469 0.1
R1468 2.2k
R1467 10k
R1456 47k
R1480 47k
C1470 0.01
R1459 47k
R1458 47k
R1457 47k
R1479 47k
R1478 47k
R1477 47k
R1476 47k
R1475 47k
R1474 47k
R1460 47k
C1357 1000p
C1362 1000p
R1463 47k
C1471 0.01
C1475 0.01
R1299 100
R1481 47k
C1456 0.0022
C1457 0.1
C1449 0.0022
E1
E2
E3
E4
E5
E6
E7
E8
C1
C2
C3
C4
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
DW1
DW2
DW3
DV1
DV2
DV3
EA1
EA2
EA3
DP1
DP2
DP3

6-54. PRINTED WIRING BOARD – MOTHER Board (Component Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.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[MOTHER BOARD] (COMPONENT SIDE)
1-688-674-
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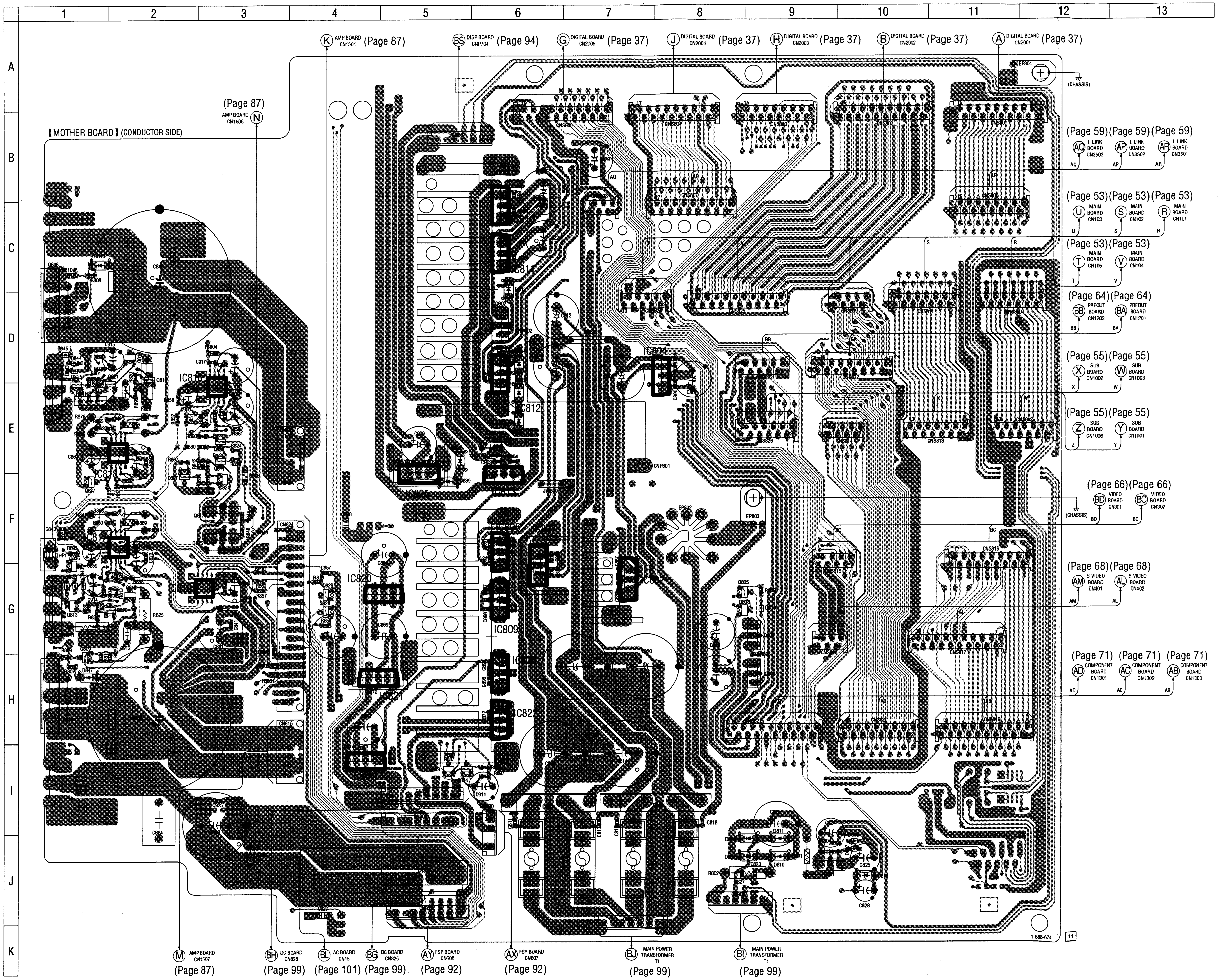
6-55. PRINTED WIRING BOARD – MOTHER Board (Conductor Side) –

• See page 35 for Circuit Boards Location. :Uses unleaded solder.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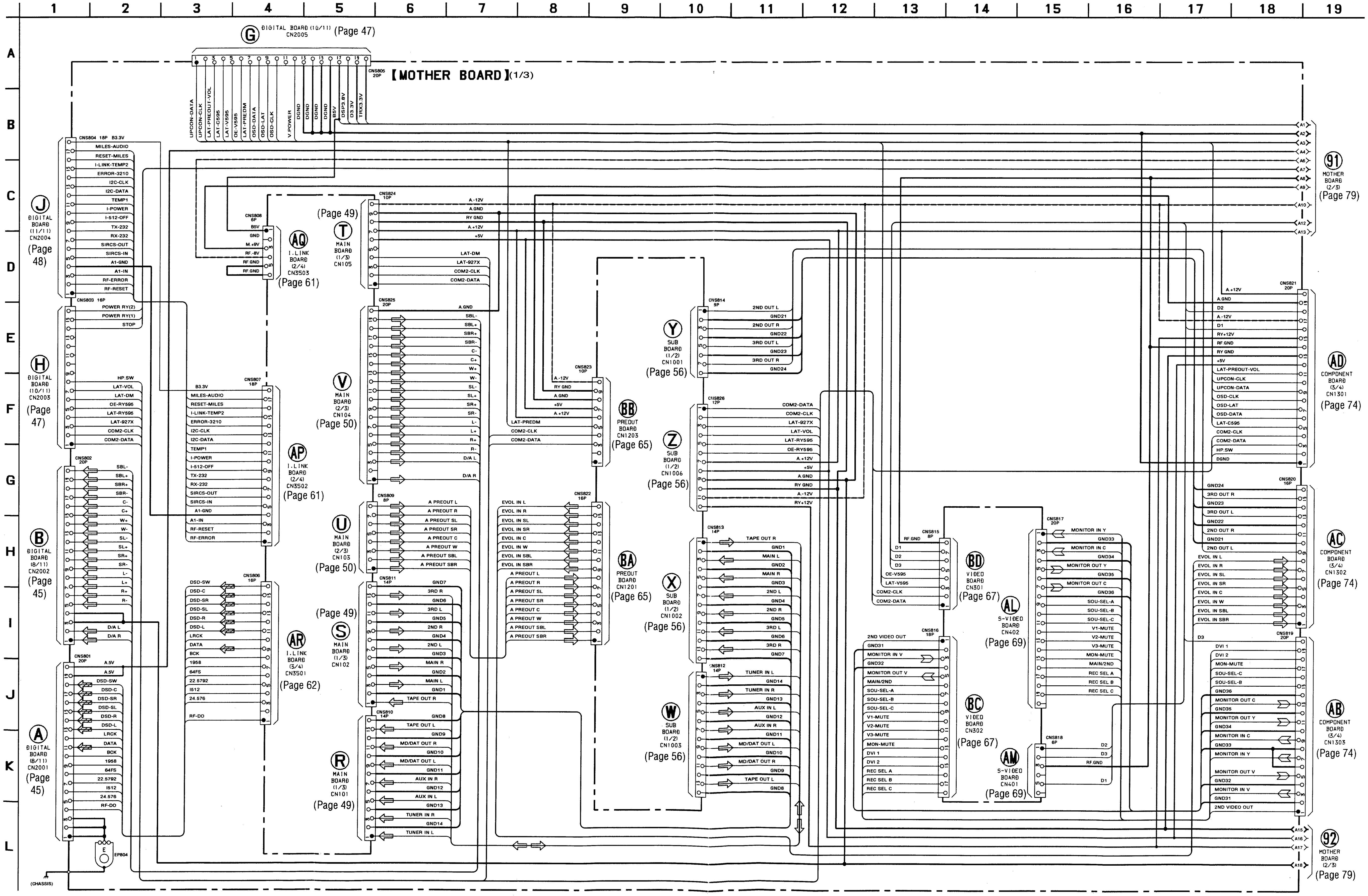
K
Ⓚ AMP BOARD CN1501 (Page 87)
ⒷⓈ DISP BOARD CNP704 (Page 94)
Ⓖ DIGITAL BOARD CN2005 (Page 37)
Ⓙ DIGITAL BOARD CN2004 (Page 37)
Ⓗ DIGITAL BOARD CN2003 (Page 37)
Ⓑ DIGITAL BOARD CN2002 (Page 37)
Ⓐ DIGITAL BOARD CN2001 (Page 37)
(Page 87) AMP BOARD CN1506 Ⓝ
【MOTHER BOARD】(CONDUCTOR SIDE)
(CHASSIS)
(Page 59)(Page 59)(Page 59)
ⒶⓆ I. LINK BOARD CN3503
ⒶⓅ I. LINK BOARD CN3502
ⒶⓇ I. LINK BOARD CN3501
(Page 53)(Page 53)(Page 53)
Ⓤ MAIN BOARD CN103
Ⓢ MAIN BOARD CN102
Ⓡ MAIN BOARD CN101
(Page 53)(Page 53)
Ⓣ MAIN BOARD CN105
Ⓥ MAIN BOARD CN104
(Page 64)(Page 64)
ⒷⒷ PREOUT BOARD CN1203
ⒷⒶ PREOUT BOARD CN1201
(Page 55)(Page 55)
Ⓧ SUB BOARD CN1002
Ⓦ SUB BOARD CN1003
(Page 55)(Page 55)
Ⓩ SUB BOARD CN1006
Ⓨ SUB BOARD CN1001
(Page 66)(Page 66)
ⒷⒹ VIDEO BOARD CN301
ⒷⒸ VIDEO BOARD CN302
(CHASSIS)
(Page 68)(Page 68)
ⒶⓂ S-VIDEO BOARD CN401
ⒶⓁ S-VIDEO BOARD CN402
(Page 71) (Page 71) (Page 71)
ⒶⒹ COMPONENT BOARD CN1301
ⒶⒸ COMPONENT BOARD CN1302
ⒶⒷ COMPONENT BOARD CN1303
IC817
IC816
IC818
IC819
IC820
IC821
IC823
IC825
IC810
IC811
IC812
IC804
IC806
IC807
IC809
IC808
IC822
IC802
CNP801
EP802
EP803
EP804
1-688-674-
11
Ⓜ AMP BOARD CN1507 (Page 87)
ⒷⒽ DC BOARD CN828 (Page 99)
ⒷⓁ AC BOARD CN15 (Page 101)
ⒷⒼ DC BOARD CN826 (Page 99)
ⒶⓎ FSP BOARD CN608 (Page 92)
ⒶⓍ FSP BOARD CN607 (Page 92)
ⒷⒿ MAIN POWER TRANSFORMER T1 (Page 99)
ⒷⒾ MAIN POWER TRANSFORMER T1 (Page 99)

• **Semiconductor Location**

Ref. No.	Location
D802	I-6
D806	I-8
D807	J-9
D808	J-9
D809	J-10
D810	J-9
D811	J-9
D812	C-6
D813	J-10
D814	D-6
D815	E-6
D816	E-6
D818	G-9
D837	J-10
D838	E-5
D839	F-5
D840	G-1
D841	G-1
D842	G-1
D843	D-1
D844	D-1
D845	D-1
D846	C-1
D847	H-1
IC802	G-7
IC804	D-8
IC806	F-6
IC807	G-6
IC808	H-6
IC809	G-6
IC810	C-6
IC811	C-6
IC812	D-6
IC813	F-6
IC816	E-3
IC817	F-2
IC818	E-2
IC819	G-3
IC820	G-5
IC821	H-4
IC822	H-6
IC823	I-4
IC825	F-5
Q801	J-9
Q802	D-6
Q803	G-8
Q804	G-9
Q805	G-8
Q806	H-9
Q807	H-1
Q808	D-1
Q809	H-1
Q810	D-2
Q811	E-3
Q812	G-2
Q813	G-1
Q814	D-2
Q815	E-1
Q817	F-3
Q820	G-2
Q821	E-2
Q822	G-1
Q823	E-1
Q824	F-3
Q825	F-3
Q826	E-3
Q827	F-2
Q828	G-4
Q829	G-4
Q833	I-5
Q834	I-5
Q836	G-1
Q837	F-1

6-56. SCHEMATIC DIAGRAM – MOTHER Board (1/3) –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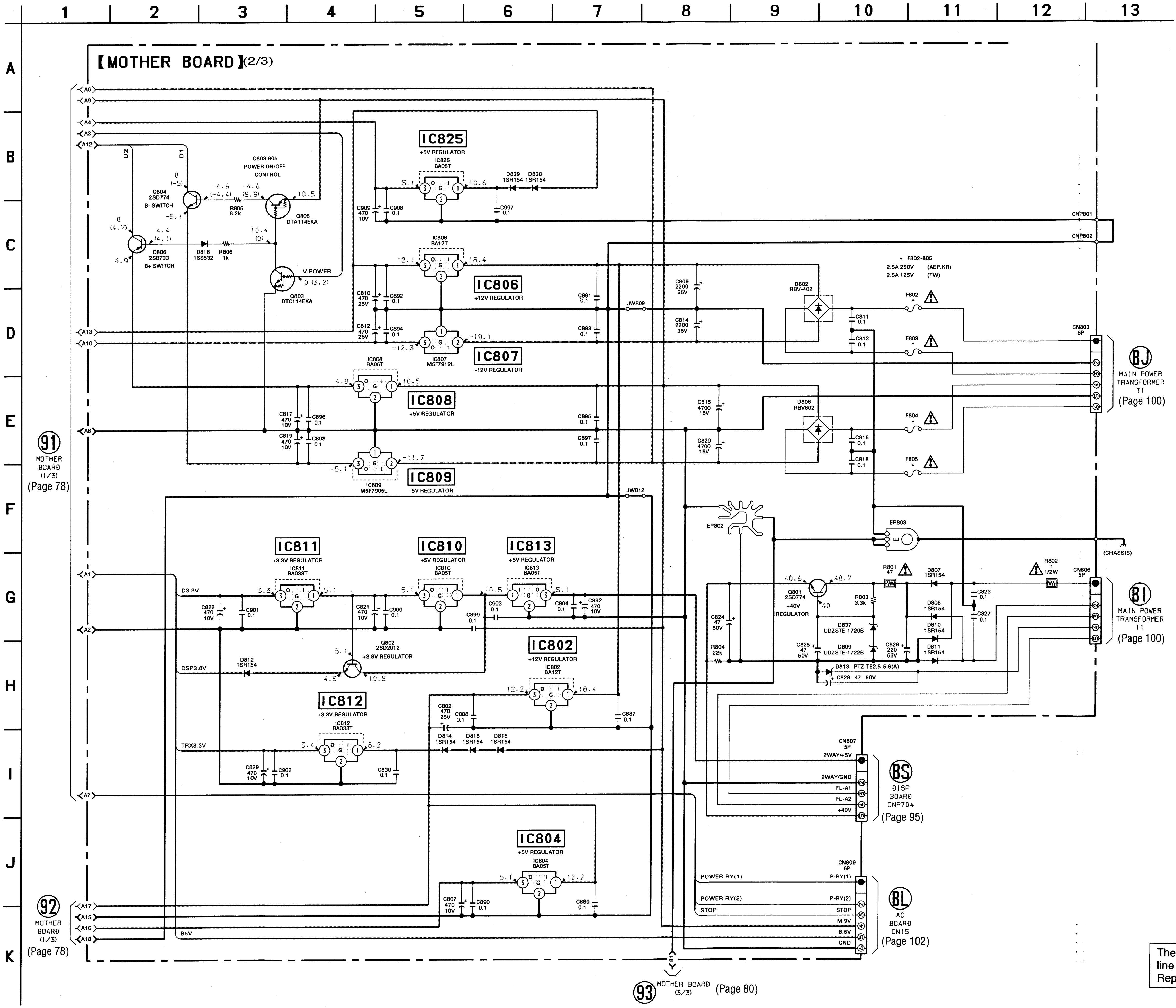
I
J
K
L
G DIGITAL BOARD (10/11) CN2005 (Page 47)
CNS805 20P
【MOTHER BOARD】(1/3)
UPCON-DATA
UPCON-CLK
LAT-PREOUT-VOL
LAT-C595
LAT-V595
OE-V595
LAT-PREDM
OSD-DATA
OSD-LAT
OSD-CLK
V.POWER
DGND
B5V
DSP3.8V
D3.3V
TRX3.3V
CNS804 18P B3.3V
MILES-AUDIO
RESET-MILES
I-LINK-TEMP2
ERROR-3210
I2C-CLK
I2C-DATA
TEMP1
I-POWER
I-512-OFF
TX-232
RX-232
SIRCS-OUT
SIRCS-IN
A1-GND
A1-IN
RF-ERROR
RF-RESET
J DIGITAL BOARD (11/11) CN2004 (Page 48)
CNS803 16P
POWER RY(2)
POWER RY(1)
STOP
HP.SW
LAT-VOL
LAT-DM
OE-RY595
LAT-RY595
LAT-927X
COM2-CLK
COM2-DATA
H DIGITAL BOARD (10/11) CN2003 (Page 47)
CNS802 20P
SBL-
SBL+
SBR+
SBR-
C-
C+
W+
W-
SL-
SL+
SR+
SR-
L-
L+
R+
R-
D/A L
D/A R
B DIGITAL BOARD (8/11) CN2002 (Page 45)
CNS801 20P
A.5V
DSD-SW
DSD-C
DSD-SR
DSD-SL
DSD-R
DSD-L
LRCK
DATA
BCK
1958
64FS
22.5792
I512
24.576
RF-DO
A DIGITAL BOARD (8/11) CN2001 (Page 45)
EP804
(CHASSIS)
CNS808 6P
B5V
GND
M +9V
RF -8V
RF GND
AQ I.LINK BOARD (2/4) CN3503 (Page 61)
CNS807 18P
AP I.LINK BOARD (2/4) CN3502 (Page 61)
CNS806 16P
AR I.LINK BOARD (3/4) CN3501 (Page 62)
CNS824 10P
A.-12V
A.GND
RY GND
A.+12V
+5V
LAT-DM
LAT-927X
COM2-CLK
COM2-DATA
T MAIN BOARD (1/3) CN105 (Page 49)
CNS825 20P
A.GND
D/A L
D/A R
V MAIN BOARD (2/3) CN104 (Page 50)
CNS809 8P
A PREOUT L
A PREOUT R
A PREOUT SL
A PREOUT SR
A PREOUT C
A PREOUT W
A PREOUT SBL
A PREOUT SBR
U MAIN BOARD (2/3) CN103 (Page 50)
CNS811 14P
3RD R
GND6
3RD L
GND5
2ND R
GND4
2ND L
GND3
MAIN R
GND2
MAIN L
GND1
TAPE OUT R
S MAIN BOARD (1/3) CN102 (Page 49)
CNS810 14P
GND8
TAPE OUT L
GND9
MD/DAT OUT R
GND10
MD/DAT OUT L
GND11
AUX IN R
GND12
AUX IN L
GND13
TUNER IN R
GND14
TUNER IN L
R MAIN BOARD (1/3) CN101 (Page 49)
CNS823 10P
A.-12V
RY GND
A.GND
+5V
A.+12V
LAT-PREDM
BB PREOUT BOARD CN1203 (Page 65)
CNS822 16P
EVOL IN L
EVOL IN R
EVOL IN SL
EVOL IN SR
EVOL IN C
EVOL IN W
EVOL IN SBL
EVOL IN SBR
BA PREOUT BOARD CN1201 (Page 65)
CNS814 8P
2ND OUT L
GND21
2ND OUT R
GND22
3RD OUT L
GND23
3RD OUT R
GND24
Y SUB BOARD (1/2) CN1001 (Page 56)
CNS826 12P
LAT-VOL
LAT-RY595
OE-RY595
A.+12V
A GND
RY GND
A.-12V
RY+12V
Z SUB BOARD (1/2) CN1006 (Page 56)
CNS813 14P
X SUB BOARD (1/2) CN1002 (Page 56)
CNS812 14P
W SUB BOARD (1/2) CN1003 (Page 56)
CNS815 8P
RF GND
D1
D2
D3
OE-V595
LAT-V595
BD VIDEO BOARD CN301 (Page 67)
CNS816 18P
2ND VIDEO OUT
GND31
MONITOR IN V
GND32
MONITOR OUT V
MAIN/2ND
SOU-SEL-A
SOU-SEL-B
SOU-SEL-C
V1-MUTE
V2-MUTE
V3-MUTE
MON-MUTE
DVI 1
DVI 2
REC SEL A
REC SEL B
REC SEL C
BC VIDEO BOARD CN302 (Page 67)
CNS817 20P
MONITOR IN Y
GND33
MONITOR IN C
GND34
MONITOR OUT Y
GND35
MONITOR OUT C
GND36
AL S-VIDEO BOARD CN402 (Page 69)
CNS818 6P
AM S-VIDEO BOARD CN401 (Page 69)
91 MOTHER BOARD (2/3) (Page 79)
A1
A2
A3
A4
A6
A7
A8
A9
A10
A12
A13
CNS821 20P
A.+12V
D2
A.-12V
D1
RY+12V
RF GND
RY GND
+5V
LAT-PREOUT-VOL
UPCON-CLK
UPCON-DATA
OSD-CLK
OSD-LAT
OSD-DATA
LAT-C595
HP.SW
DGND
AD COMPONENT BOARD (3/4) CN1301 (Page 74)
CNS820 16P
AC COMPONENT BOARD (3/4) CN1302 (Page 74)
CNS819 20P
D3
AB COMPONENT BOARD (3/4) CN1303 (Page 74)
A15
A16
A17
A18
92 MOTHER BOARD (2/3) (Page 79)

6-57. SCHEMATIC DIAGRAM – MOTHER Board (2/3) –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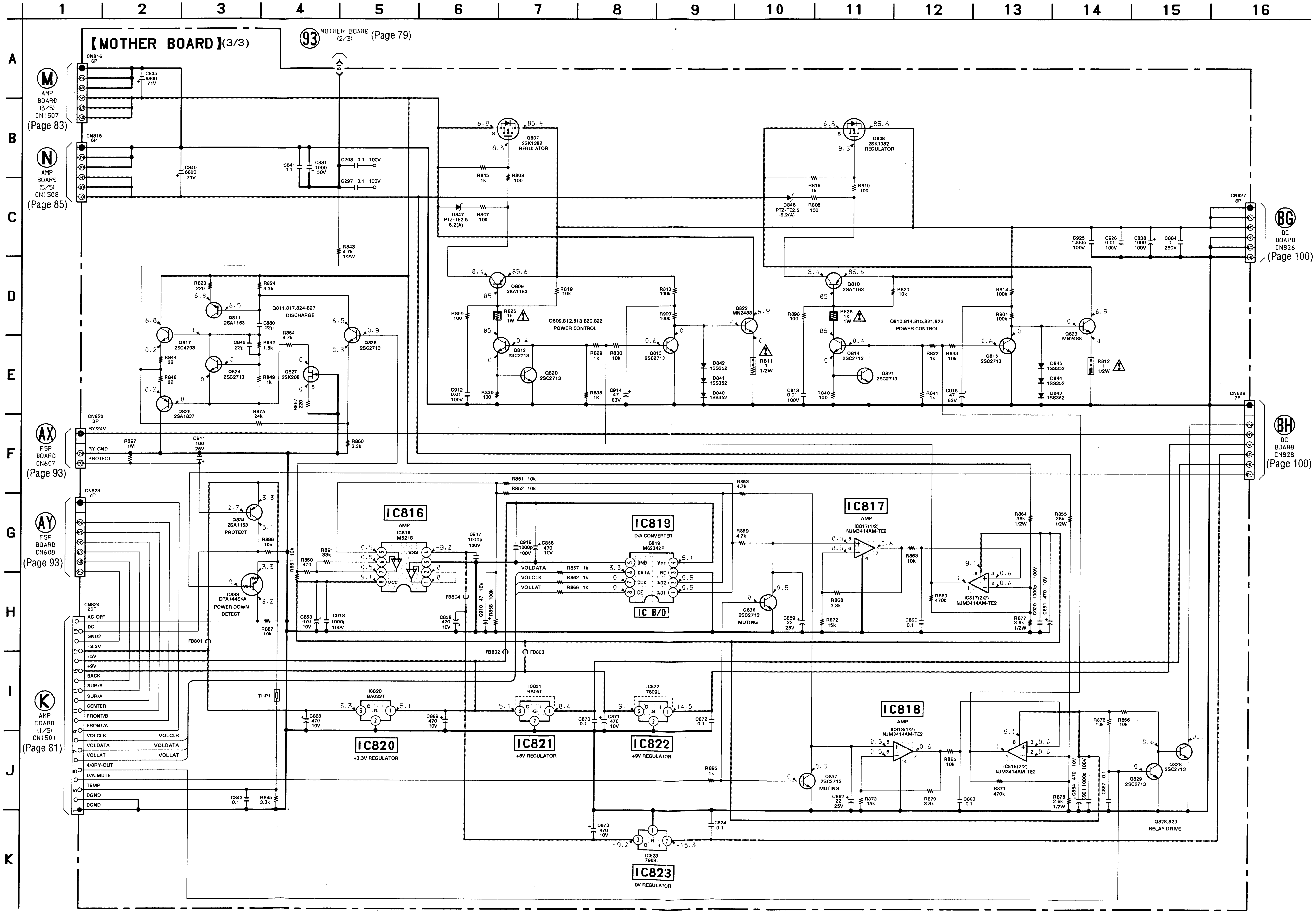
K
【MOTHER BOARD】(2/3)
A6
A9
A4
A3
A12
A13
A10
A8
A1
A2
A7
A17
A15
A16
A18
Q803,805
POWER ON/OFF
CONTROL
Q804
2SD774
B- SWITCH
R805
8.2k
Q805
DTA114EKA
Q806
2SB733
B+ SWITCH
D818
1SS532
R806
1k
Q803
DTC114EKA
V.POWER
IC825
+5V REGULATOR
IC825
BA05T
D839
1SR154
D838
1SR154
C909
470
10V
C908
0.1
C907
0.1
IC806
BA12T
IC806
+12V REGULATOR
C810
470
25V
C892
0.1
C891
0.1
C812
470
25V
C894
0.1
C893
0.1
IC807
M5F7912L
IC807
-12V REGULATOR
IC808
BA05T
IC808
+5V REGULATOR
C817
470
10V
C896
0.1
C819
470
10V
C898
0.1
C895
0.1
C897
0.1
IC809
M5F7905L
IC809
-5V REGULATOR
JW809
JW812
C809
2200
35V
C814
2200
35V
D802
RBV-402
C811
0.1
C813
0.1
• F802-805
2.5A 250V (AEP,KR)
2.5A 125V (TW)
F802
F803
C815
4700
16V
C820
4700
16V
D806
RBV602
C816
0.1
C818
0.1
F804
F805
CNP801
CNP802
CN803
6P
BJ
MAIN POWER
TRANSFORMER
T1
(Page 100)
EP802
EP803
(CHASSIS)
IC811
+3.3V REGULATOR
IC811
BA033T
IC810
+5V REGULATOR
IC810
BA05T
IC813
+5V REGULATOR
IC813
BA05T
D3.3V
C822
470
10V
C901
0.1
C821
470
10V
C900
0.1
C899
0.1
C903
0.1
C904
0.1
C832
470
10V
Q802
2SD2012
+3.8V REGULATOR
DSP3.8V
D812
1SR154
IC802
+12V REGULATOR
IC802
BA12T
IC812
+3.3V REGULATOR
IC812
BA033T
TRX3.3V
C829
470
10V
C902
0.1
C830
0.1
C802
470
25V
C888
0.1
C887
0.1
D814
1SR154
D815
1SR154
D816
1SR154
Q801
2SD774
+40V
REGULATOR
R801
47
D807
1SR154
R802
1
1/2W
CN806
5P
C823
0.1
C827
0.1
R803
3.3k
C824
47
50V
D837
UDZSTE-1720B
D808
1SR154
D810
1SR154
C825
47
50V
D809
UDZSTE-1722B
C826
220
63V
D811
1SR154
R804
22k
D813 PTZ-TE2.5-5.6(A)
C828 47 50V
BI
MAIN POWER
TRANSFORMER
T1
(Page 100)
CN807
5P
2WAY/+5V
2WAY/GND
FL-A1
FL-A2
+40V
BS
DISP
BOARD
CNP704
(Page 95)
IC804
+5V REGULATOR
IC804
BA05T
C807
470
10V
C890
0.1
C889
0.1
CN809
6P
POWER RY(1)
POWER RY(2)
STOP
P-RY(1)
P-RY(2)
STOP
M.9V
B.5V
GND
BL
AC
BOARD
CN15
(Page 102)
B5V
91
MOTHER
BOARD
(1/3)
(Page 78)
92
MOTHER
BOARD
(1/3)
(Page 78)
93
MOTHER BOARD
(3/3)
(Page 80)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-58. SCHEMATIC DIAGRAM – MOTHER Board (3/3) –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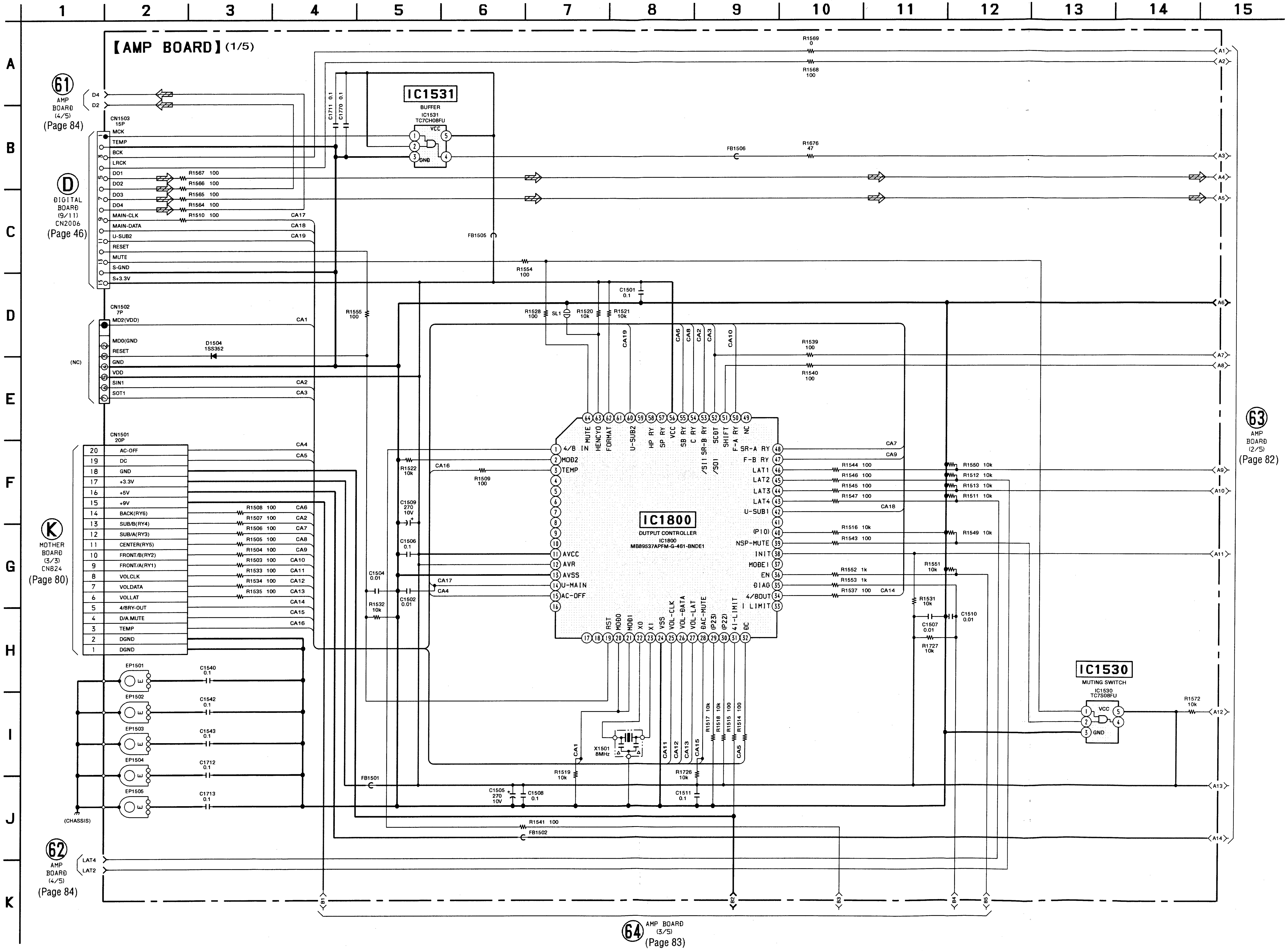
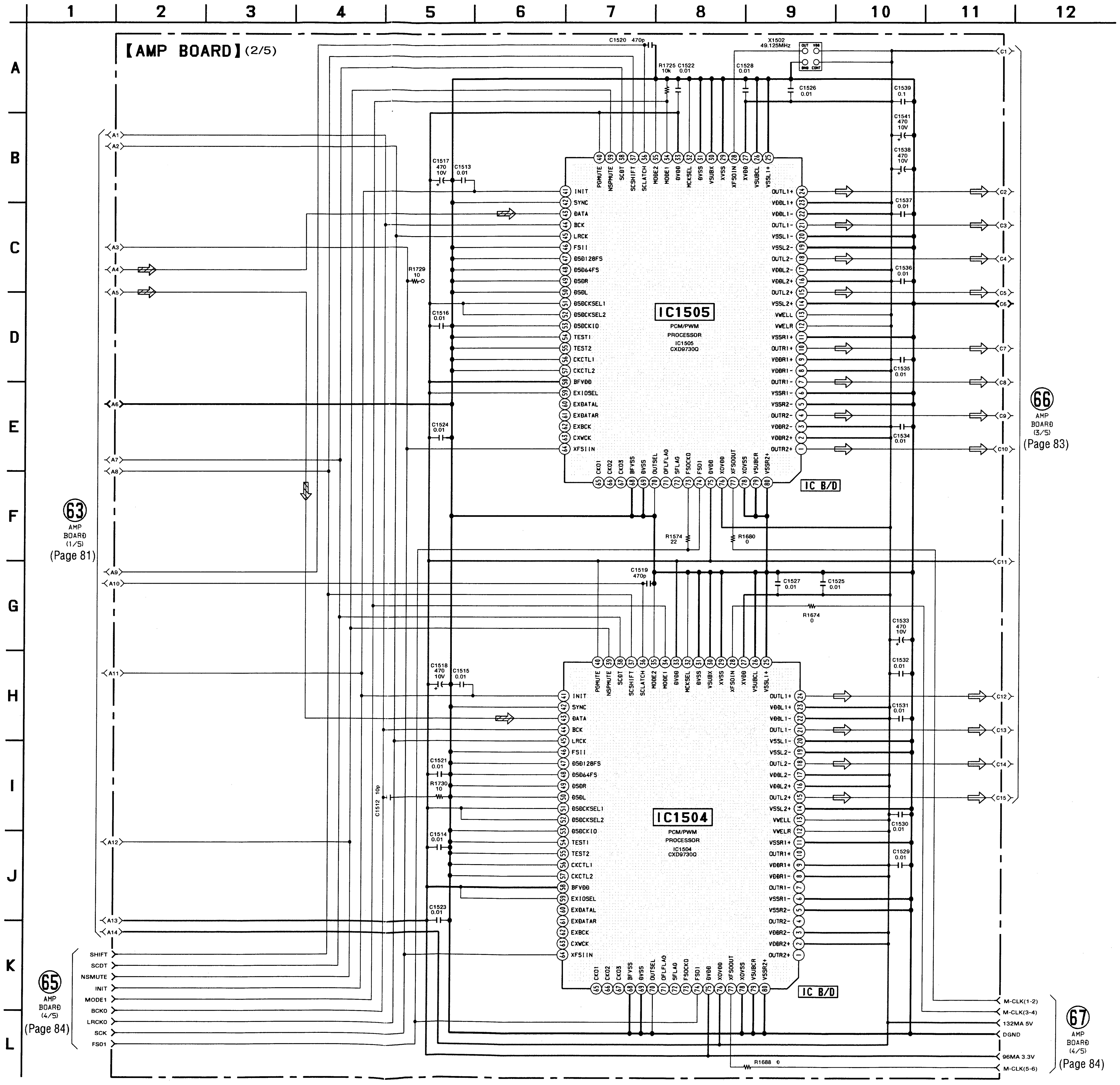
J
K
【MOTHER BOARD】(3/3)
93 MOTHER BOARD (2/3) (Page 79)
M AMP BOARD (3/5) CN1507 (Page 83)
N AMP BOARD (5/5) CN1508 (Page 85)
AX FSP BOARD CN607 (Page 93)
AY FSP BOARD CN608 (Page 93)
K AMP BOARD (1/5) CN1501 (Page 81)
BG DC BOARD CN826 (Page 100)
BH DC BOARD CN828 (Page 100)
CN816 6P
CN815 6P
CN820 3P
CN823 7P
CN824 20P
CN827 6P
CN829 7P
RY/24V
RY-GND
PROTECT
AC-OFF
DC
GND2
+3.3V
+5V
+9V
BACK
SUR/B
SUR/A
CENTER
FRONT/B
FRONT/A
VOLCLK
VOLDATA
VOLLAT
4/8RY-OUT
D/A MUTE
TEMP
DGND
DGND
Q807 2SK1382 REGULATOR
Q808 2SK1382 REGULATOR
Q809 2SA1163
Q810 2SA1163
Q809,812,813,820,822 POWER CONTROL
Q810,814,815,821,823 POWER CONTROL
Q811,817,824-827 DISCHARGE
Q834 2SA1163 PROTECT
Q833 DTA144EKA POWER DOWN DETECT
Q836 2SC2713 MUTING
Q837 2SC2713 MUTING
Q828,829 RELAY DRIVE
IC816 AMP IC816 M5218
IC819 D/A CONVERTER IC819 M62342P
IC 8/D
IC817 AMP IC817(1/2) NJM3414AM-TE2
IC817(2/2) NJM3414AM-TE2
IC818 AMP IC818(1/2) NJM3414AM-TE2
IC818(2/2) NJM3414AM-TE2
IC820 BA033T
IC820 +3.3V REGULATOR
IC821 BA05T
IC821 +5V REGULATOR
IC822 7809L
IC822 +9V REGULATOR
IC823 7909L
IC823 -9V REGULATOR
THP1
FB801
FB802
FB803
FB804

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-59. SCHEMATIC DIAGRAM – AMP Board (1/5) –

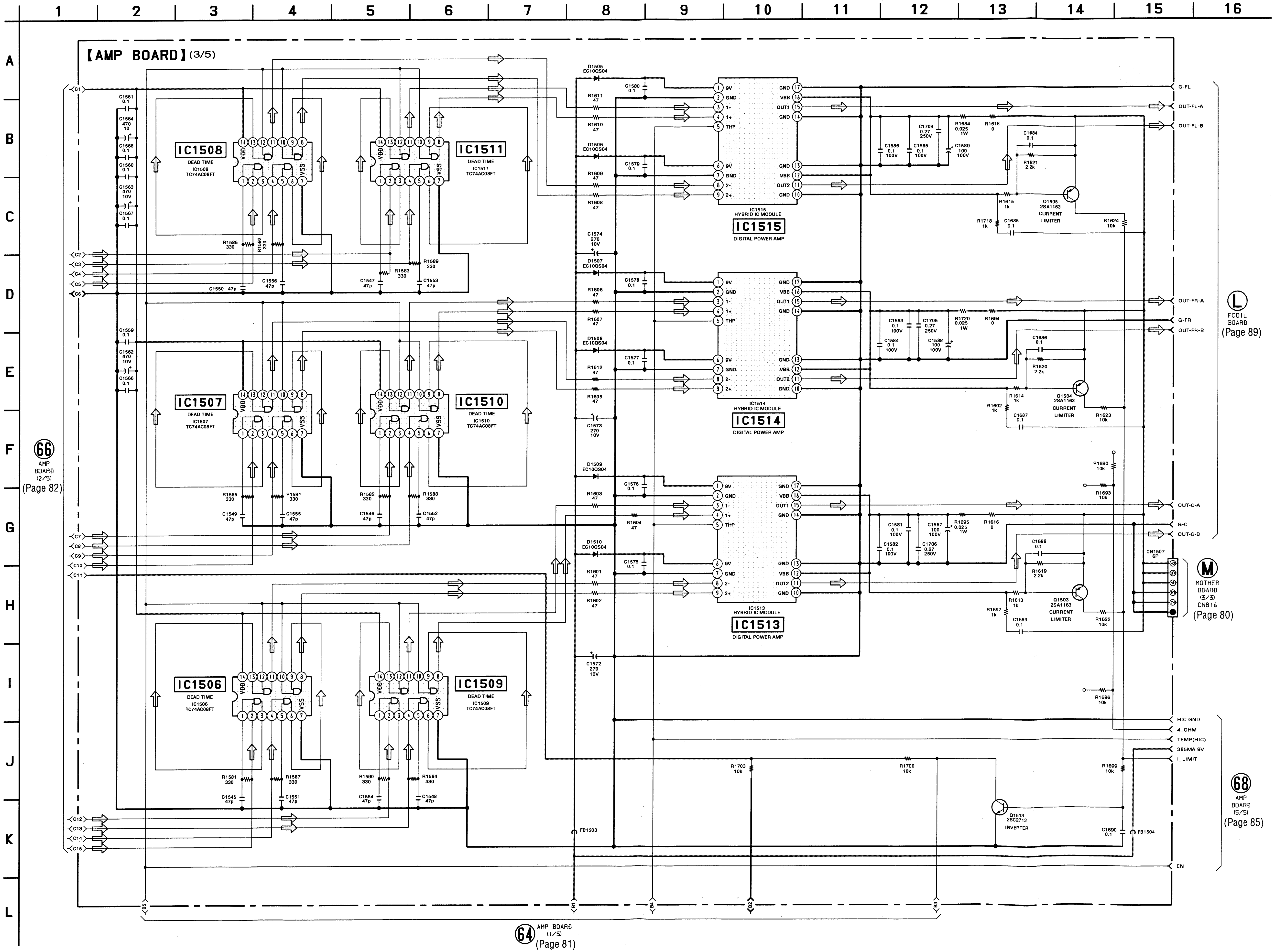

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J K
【AMP BOARD】(1/5)
61 AMP BOARD (4/5) (Page 84)
D4
D2
CN1503 15P
MCK
TEMP
BCK
LRCK
DO1
DO2
DO3
DO4
MAIN-CLK
MAIN-DATA
U-SUB2
RESET
MUTE
S-GND
S+3.3V
D DIGITAL BOARD (9/11) CN2006 (Page 46)
R1567 100
R1566 100
R1565 100
R1564 100
R1510 100
CA17
CA18
CA19
C1711 0.1
C1770 0.1
IC1531
BUFFER
IC1531 TC7CH08FU
VCC
GND
R1569 0
R1568 100
A1
A2
FB1506
R1676 47
A3
A4
A5
FB1505
R1554 100
CN1502 7P
MD2(VDD)
MD0(GND)
RESET
GND
VDD
SIN1
SOT1
(NC)
D1504 1SS352
CA1
CA2
CA3
R1555 100
R1528 100
SL1
R1520 10k
R1521 10k
C1501 0.1
CA19
CA6
CA8
CA2
CA3
CA10
R1539 100
R1540 100
A6
A7
A8
CN1501 20P
20 AC-OFF
19 DC
18 GND
17 +3.3V
16 +5V
15 +9V
14 BACK(RY6)
13 SUB/B(RY4)
12 SUB/A(RY3)
11 CENTER(RY5)
10 FRONT/B(RY2)
9 FRONT/A(RY1)
8 VOLCLK
7 VOLDATA
6 VOLLAT
5 4/8RY-OUT
4 D/A.MUTE
3 TEMP
2 DGND
1 DGND
K MOTHER BOARD (3/3) CN824 (Page 80)
CA4
CA5
R1508 100 CA6
R1507 100 CA2
R1506 100 CA7
R1505 100 CA8
R1504 100 CA9
R1503 100 CA10
R1533 100 CA11
R1534 100 CA12
R1535 100 CA13
CA14
CA15
CA16
R1522 10k
CA16
R1509 100
C1509 270 10V
C1506 0.1
C1504 0.01
R1532 10k
C1502 0.01
CA17
CA4
IC1800
OUTPUT CONTROLLER
IC1800 MB89537APFM-G-461-BNDE1
1 4/8 IN
2 MOD2
3 TEMP
11 AVCC
12 AVR
13 AVSS
14 U-MAIN
15 AC-OFF
64 MUTE
63 HENCYO
62 FORMAT
60 U-SUB2
58 HP RY
57 SP RY
56 VCC
55 SB RY
54 C RY
53 /SI1 SR-B RY
52 /SO1 SCOT
51 SHIFT
50 F-A RY
49 NC
48 SR-A RY
47 F-B RY
46 LAT1
45 LAT2
44 LAT3
43 LAT4
42 U-SUB1
41
40 (P10)
39 NSP-MUTE
38 INIT
37 MODE1
36 EN
35 DIAG
34 4/8OUT
33 I LIMIT
19 RST
20 MOD0
21 MOD1
22 X0
23 X1
24 VSS
25 VOL-CLK
26 VOL-DATA
27 VOL-LAT
28 DAC-MUTE
29 (P23)
30 (P22)
31 41-LIMIT
32 DC
CA7
CA9
R1544 100
R1546 100
R1545 100
R1547 100
CA18
R1550 10k
R1512 10k
R1513 10k
R1511 10k
A9
A10
R1516 10k
R1543 100
R1549 10k
A11
R1552 1k
R1553 1k
R1537 100 CA14
R1551 10k
R1531 10k
C1507 0.01
C1510 0.01
R1727 10k
63 AMP BOARD (2/5) (Page 82)
IC1530
MUTING SWITCH
IC1530 TC7S08FU
VCC
GND
R1572 10k
A12
A13
A14
EP1501
EP1502
EP1503
EP1504
EP1505
C1540 0.1
C1542 0.1
C1543 0.1
C1712 0.1
C1713 0.1
(CHASSIS)
FB1501
CA1
X1501 8MHz
R1519 10k
C1505 270 10V
C1508 0.1
CA11
CA12
CA13
CA15
R1517 10k
R1518 10k
R1515 100
R1514 100
CA5
R1726 10k
C1511 0.1
R1541 100
FB1502
62 AMP BOARD (4/5) (Page 84)
LAT4
LAT2
B1
B2
B3
B4
B5
64 AMP BOARD (3/5) (Page 83)

6-60. SCHEMATIC DIAGRAM – AMP Board (2/5) –



【AMP BOARD】(2/5)
IC1505
PCM/PWM PROCESSOR
IC1505 CXD9730Q
IC1504
PCM/PWM PROCESSOR
IC1504 CXD9730Q
IC B/D
X1502 49.125MHz
OUT VDD GND CONT
C1520 470p
R1725 10k
C1522 0.01
C1528 0.01
C1526 0.01
C1539 0.1
C1541 470 10V
C1538 470 10V
C1537 0.01
C1536 0.01
C1535 0.01
C1534 0.01
C1517 470 10V
C1513 0.01
R1729 10
C1516 0.01
C1524 0.01
R1574 22
R1680 0
C1519 470p
C1527 0.01
C1525 0.01
R1674 0
C1533 470 10V
C1532 0.01
C1531 0.01
C1530 0.01
C1529 0.01
C1518 470 10V
C1515 0.01
C1521 0.01
R1730 10
C1512 10p
C1514 0.01
C1523 0.01
R1688 0
INIT
SYNC
DATA
BCK
LRCK
FS11
OSO128FS
OSO64FS
OSOR
OSOL
OSOCKSEL1
OSOCKSEL2
OSOCKIO
TEST1
TEST2
CKCTL1
CKCTL2
BFVDD
EXIOSEL
EXDATAL
EXDATAR
EXBCK
CXWCK
XFS11N
PDMUTE
NSPMUTE
SCDT
SCSHIFT
SCLATCH
MODE2
MODE1
DVDD
MCKSEL
DVSS
VSUBX
XVSS
XFSOIN
XVDD
VSUBCL
VSSL1+
OUTL1+
VDDL1+
VDDL1-
OUTL1-
VSSL1-
VSSL2-
OUTL2-
VDDL2-
VDDL2+
OUTL2+
VSSL2+
VWELL
VWELR
VSSR1+
OUTR1+
VDDR1+
VDDR1-
OUTR1-
VSSR1-
VSSR2-
OUTR2-
VDDR2-
VDDR2+
OUTR2+
CKO1
CKO2
CKO3
BFVSS
DVSS
OUTSEL
OFLFLAG
SFLAG
FSOCKO
FSO1
DVDD
XDVDD
XFSOOUT
XDVSS
VSUBCR
VSSR2+
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15
SHIFT
SCDT
NSMUTE
INIT
MODE1
BCKO
LRCKO
SCK
FSO1
M-CLK(1-2)
M-CLK(3-4)
132MA 5V
DGND
96MA 3.3V
M-CLK(5-6)
63 AMP BOARD (1/5) (Page 81)
65 AMP BOARD (4/5) (Page 84)
66 AMP BOARD (3/5) (Page 83)
67 AMP BOARD (4/5) (Page 84)
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J K L

6-61. SCHEMATIC DIAGRAM – AMP Board (3/5) –


1
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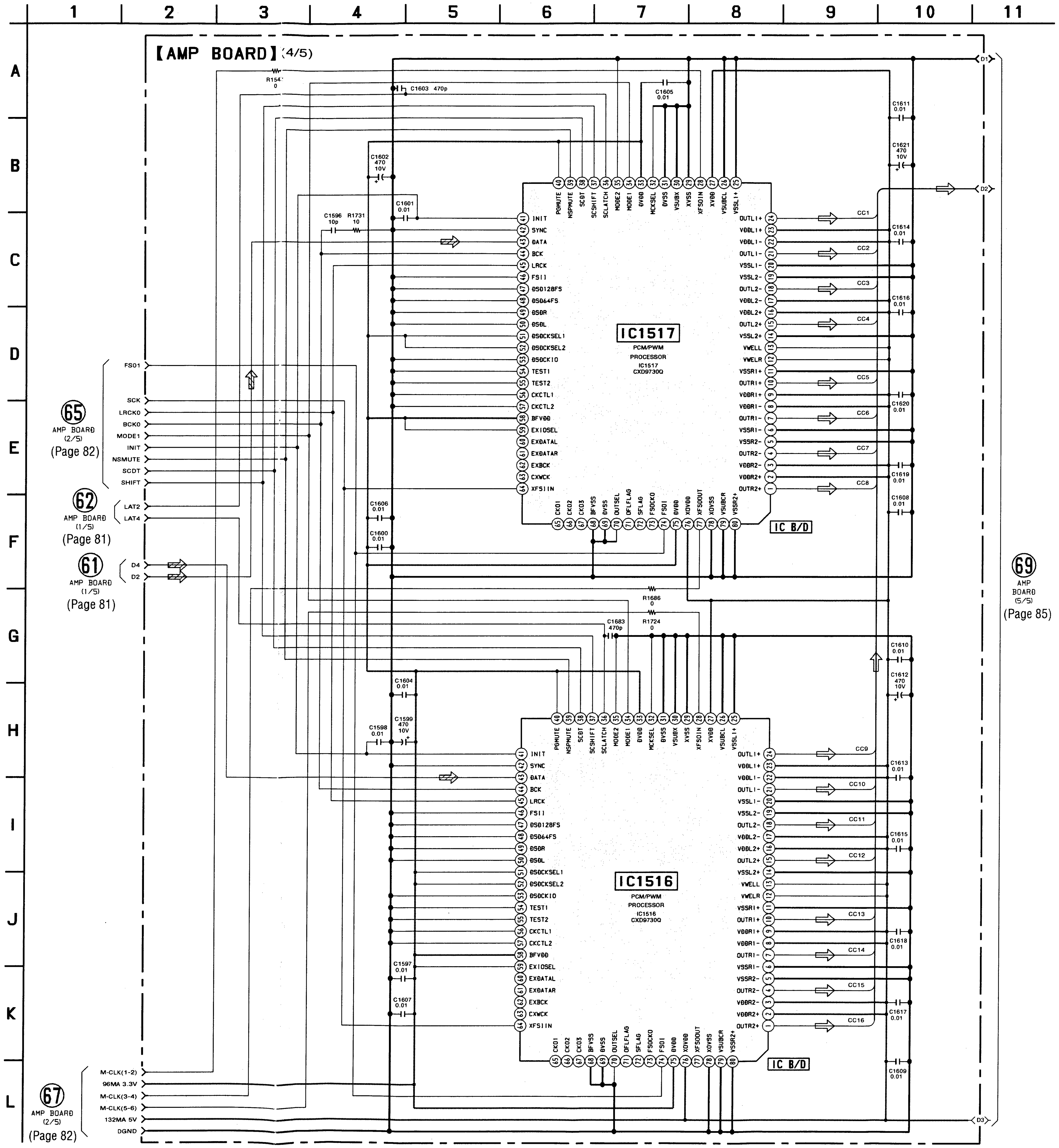
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
L
【AMP BOARD】(3/5)
IC1508
DEAD TIME
IC1508
TC74AC08FT
IC1511
DEAD TIME
IC1511
TC74AC08FT
IC1507
DEAD TIME
IC1507
TC74AC08FT
IC1510
DEAD TIME
IC1510
TC74AC08FT
IC1506
DEAD TIME
IC1506
TC74AC08FT
IC1509
DEAD TIME
IC1509
TC74AC08FT
VDD
VSS
IC1515
HYBRID IC MODULE
IC1515
DIGITAL POWER AMP
IC1514
HYBRID IC MODULE
IC1514
DIGITAL POWER AMP
IC1513
HYBRID IC MODULE
IC1513
DIGITAL POWER AMP
9V
GND
1-
1+
THP
2-
2+
VBB
OUT1
OUT2
D1505 EC10QS04
D1506 EC10QS04
D1507 EC10QS04
D1508 EC10QS04
D1509 EC10QS04
D1510 EC10QS04
Q1505 2SA1163 CURRENT LIMITER
Q1504 2SA1163 CURRENT LIMITER
Q1503 2SA1163 CURRENT LIMITER
Q1513 2SC2713 INVERTER
R1684 0.025 1W
R1720 0.025 1W
R1695 0.025 1W
C1704 0.27 250V
C1705 0.27 250V
C1706 0.27 250V
C1574 270 10V
C1573 270 10V
C1572 270 10V
FB1503
FB1504
CN1507 6P
G-FL
OUT-FL-A
OUT-FL-B
OUT-FR-A
G-FR
OUT-FR-B
OUT-C-A
G-C
OUT-C-B
HIC GND
4_OHM
TEMP(HIC)
385MA 9V
I_LIMIT
EN
Ⓛ
FCOIL BOARD
(Page 89)
Ⓜ
MOTHER BOARD (3/3) CN816
(Page 80)
㊱
AMP BOARD (2/5)
(Page 82)
㊳
AMP BOARD (5/5)
(Page 85)
64
AMP BOARD (1/5)
(Page 81)
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
B1
B2
B3
B4
B5

6-62. SCHEMATIC DIAGRAM – AMP Board (4/5) –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7
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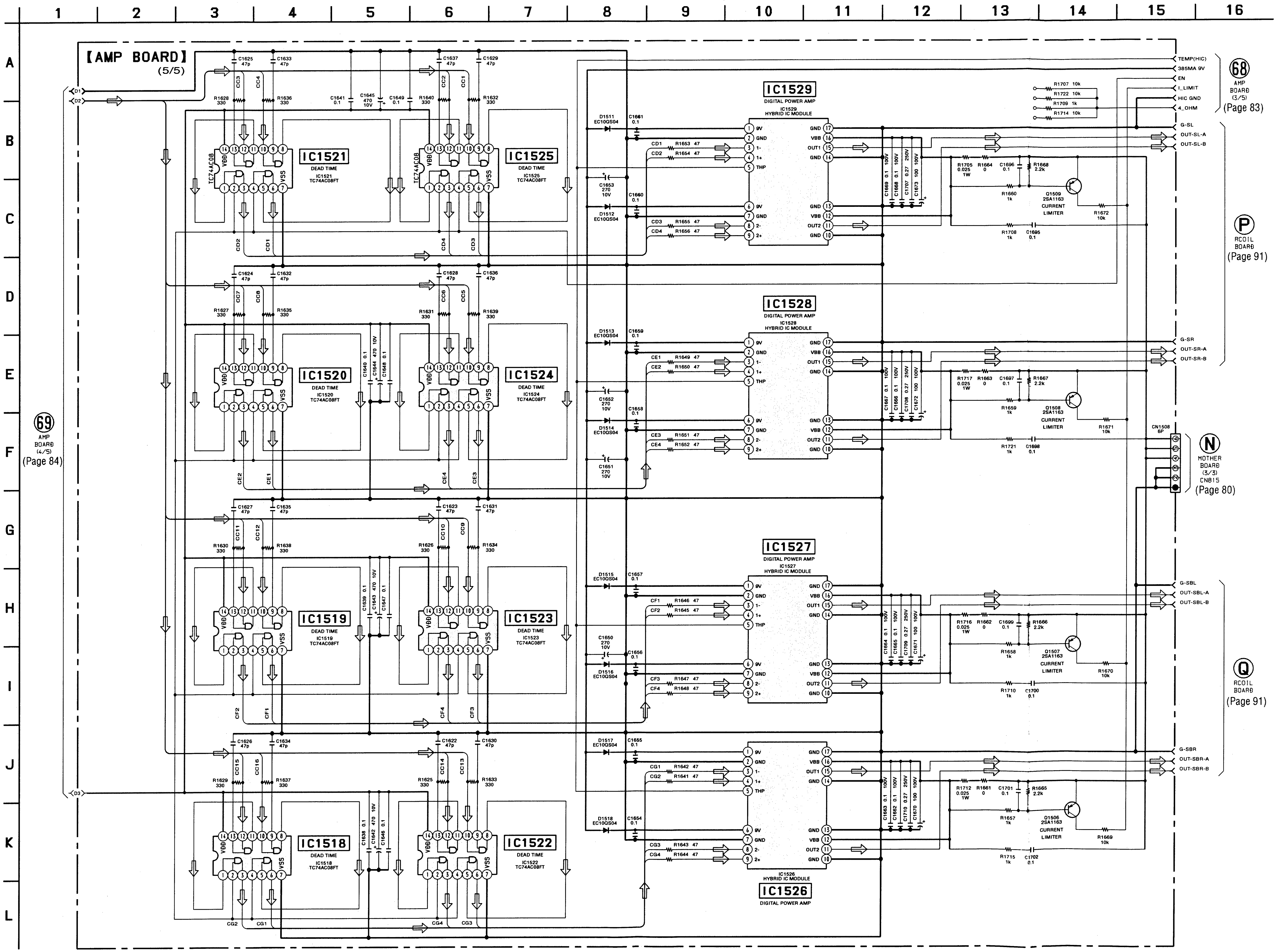
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
【AMP BOARD】(4/5)
IC1517
PCM/PWM PROCESSOR
IC1517 CXD9730Q
IC1516
PCM/PWM PROCESSOR
IC1516 CXD9730Q
IC B/D
65
AMP BOARD (2/5)
(Page 82)
FS01
SCK
LRCK0
BCK0
MODE1
INIT
NSMUTE
SCDT
SHIFT
62
AMP BOARD (1/5)
(Page 81)
LAT2
LAT4
61
AMP BOARD (1/5)
(Page 81)
D4
D2
67
AMP BOARD (2/5)
(Page 82)
M-CLK(1-2)
96MA 3.3V
M-CLK(3-4)
M-CLK(5-6)
132MA 5V
DGND
69
AMP BOARD (5/5)
(Page 85)
D1
D2
D3
C1603 470p
C1605 0.01
C1602 470 10V
C1601 0.01
C1596 10p
R1731 10
C1611 0.01
C1621 470 10V
C1614 0.01
C1616 0.01
C1620 0.01
C1619 0.01
C1608 0.01
C1606 0.01
C1600 0.01
R1686 0
R1724 0
C1683 470p
C1610 0.01
C1612 470 10V
C1604 0.01
C1599 470 10V
C1598 0.01
C1613 0.01
C1615 0.01
C1618 0.01
C1617 0.01
C1609 0.01
C1597 0.01
C1607 0.01
CC1
CC2
CC3
CC4
CC5
CC6
CC7
CC8
CC9
CC10
CC11
CC12
CC13
CC14
CC15
CC16
INIT
SYNC
DATA
BCK
LRCK
FSI1
DSD128FS
DSD64FS
DSDR
DSDL
DSDCKSEL1
DSDCKSEL2
DSDCKIO
TEST1
TEST2
CKCTL1
CKCTL2
BFVDD
EXIOSEL
EXDATAL
EXDATAR
EXBCK
CXWCK
XFSIIN
PDMUTE
NSMUTE
SCDT
SCSHIFT
SCLATCH
MODE2
MODE1
DVDD
MCKSEL
DVSS
VSUBX
XVSS
XFSOIN
XVDD
VSUBCL
VSSL1+
OUTL1+
VDDL1+
VDDL1-
OUTL1-
VSSL1-
VSSL2-
OUTL2-
VDDL2-
VDDL2+
OUTL2+
VSSL2+
VWELL
VWELR
VSSR1+
OUTR1+
VDDR1+
VDDR1-
OUTR1-
VSSR1-
VSSR2-
OUTR2-
VDDR2-
VDDR2+
OUTR2+
CKO1
CKO2
CKO3
BFVSS
DVSS
OUTSEL
OFLFLAG
SFLAG
FSOCKO
FSO1
DVDD
XDVDD
XFSOOUT
XDVSS
VSUBCR
VSSR2+

6-63. SCHEMATIC DIAGRAM – AMP Board (5/5) –


1
2
3
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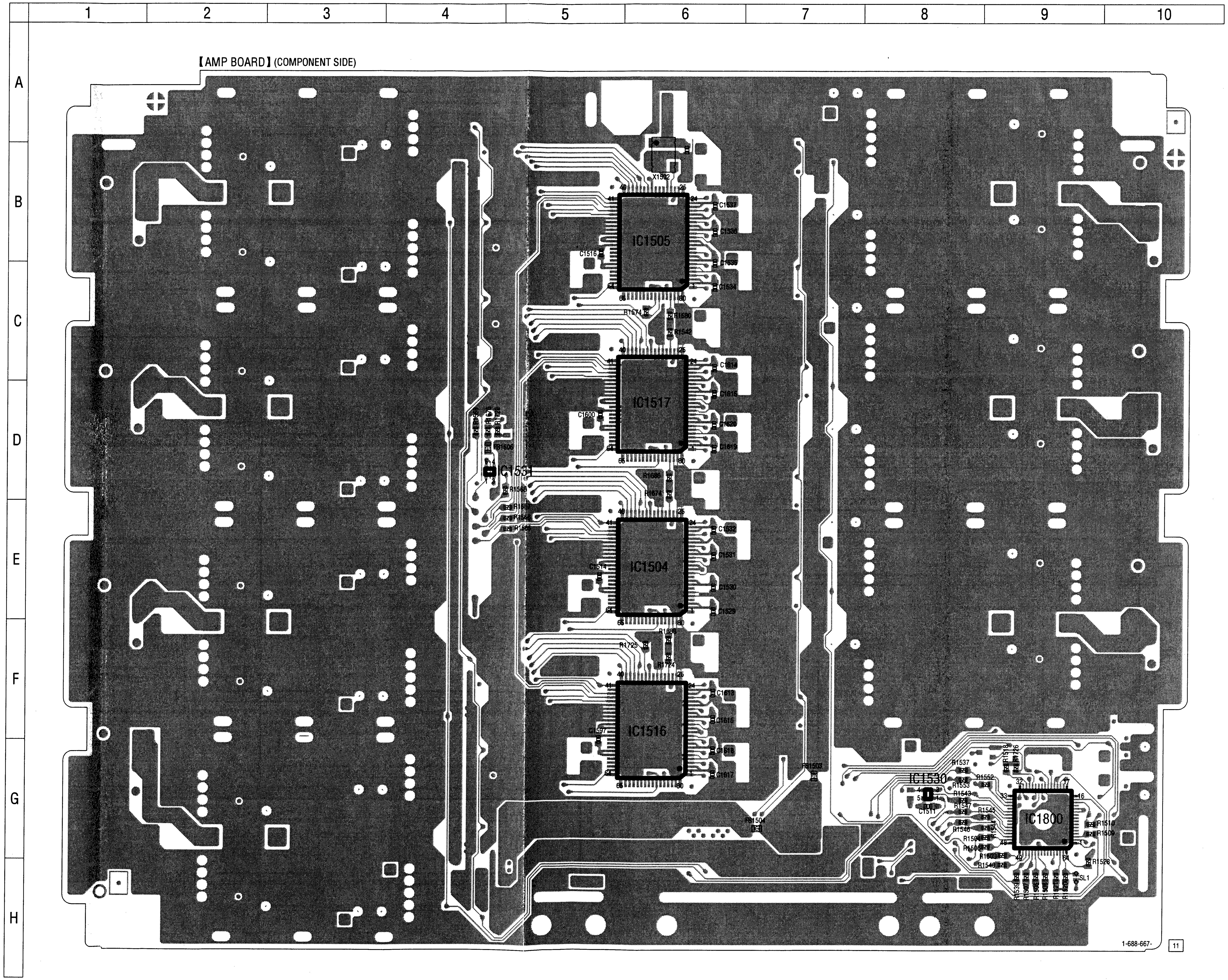
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
L
【AMP BOARD】
(5/5)
IC1521
DEAD TIME
IC1521
TC74AC08FT
IC1525
DEAD TIME
IC1525
TC74AC08FT
IC1520
DEAD TIME
IC1520
TC74AC08FT
IC1524
DEAD TIME
IC1524
TC74AC08FT
IC1519
DEAD TIME
IC1519
TC74AC08FT
IC1523
DEAD TIME
IC1523
TC74AC08FT
IC1518
DEAD TIME
IC1518
TC74AC08FT
IC1522
DEAD TIME
IC1522
TC74AC08FT
IC1529
DIGITAL POWER AMP
IC1529
HYBRID IC MODULE
IC1528
DIGITAL POWER AMP
IC1528
HYBRID IC MODULE
IC1527
DIGITAL POWER AMP
IC1527
HYBRID IC MODULE
IC1526
HYBRID IC MODULE
IC1526
DIGITAL POWER AMP
TC74AC08
VDD
VSS
9V
GND
1-
1+
THP
2-
2+
VBB
OUT1
OUT2
D1511
EC10QS04
D1512
EC10QS04
D1513
EC10QS04
D1514
EC10QS04
D1515
EC10QS04
D1516
EC10QS04
D1517
EC10QS04
D1518
EC10QS04
C1653
270
10V
C1652
270
10V
C1651
270
10V
C1650
270
10V
Q1509
2SA1163
CURRENT
LIMITER
Q1508
2SA1163
CURRENT
LIMITER
Q1507
2SA1163
CURRENT
LIMITER
Q1506
2SA1163
CURRENT
LIMITER
R1707 10k
R1722 10k
R1709 1k
R1714 10k
TEMP(HIC)
385MA 9V
EN
I_LIMIT
HIC GND
4_OHM
G-SL
OUT-SL-A
OUT-SL-B
G-SR
OUT-SR-A
OUT-SR-B
G-SBL
OUT-SBL-A
OUT-SBL-B
G-SBR
OUT-SBR-A
OUT-SBR-B
CN1508
6P
68
AMP
BOARD
(3/5)
(Page 83)
P
RCOIL
BOARD
(Page 91)
N
MOTHER
BOARD
(3/3)
CN815
(Page 80)
Q
RCOIL
BOARD
(Page 91)
69
AMP
BOARD
(4/5)
(Page 84)
D1
D2
D3
CD1
CD2
CD3
CD4
CE1
CE2
CE3
CE4
CF1
CF2
CF3
CF4
CG1
CG2
CG3
CG4

6-64. PRINTED WIRING BOARD – AMP Board (Component Side) – • See page 35 for Circuit Boards Location. ⓛ :Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
IC1504	E-6
IC1505	B-6
IC1516	F-6
IC1517	D-6
IC1530	G-8
IC1531	D-4
IC1800	G-9


1
2
3
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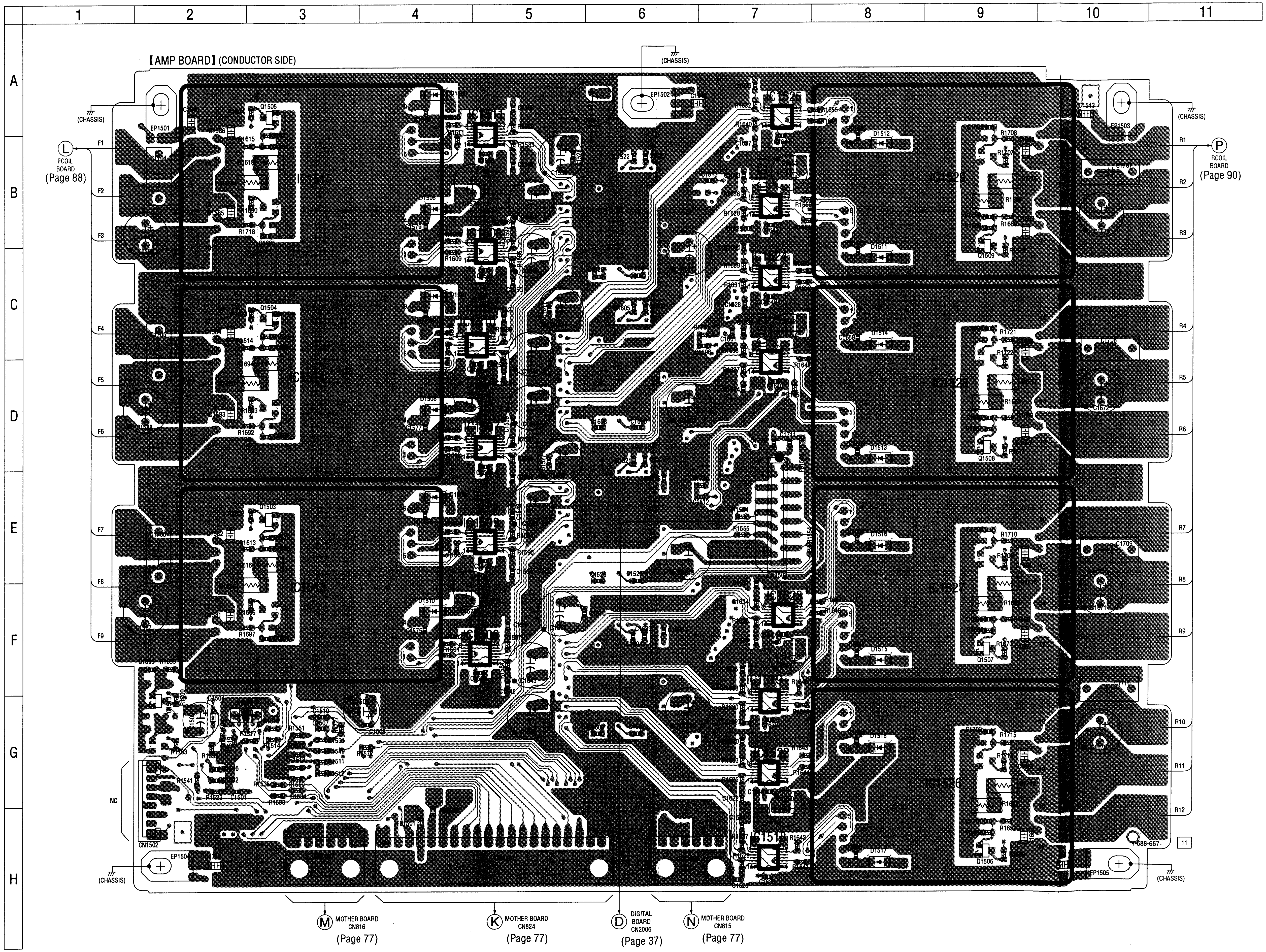
5
6
7
8
9
10
A
B
C
D
E
F
G
H
【AMP BOARD】(COMPONENT SIDE)
X1502
IC1505
IC1517
IC1504
IC1516
IC1531
IC1530
IC1800
C1516
C1600
C1574
C1597
R1574
R1606
R1725
R1724
R1504
R1537
R1552
R1543
R1545
R1546
R1526
R1509
R1510
C1511
SL1
1-688-667-
11

6-65. PRINTED WIRING BOARD – AMP Board (Conductor Side) – • See page 35 for Circuit Boards Location. 🄻🄵 :Uses unleaded solder.


1
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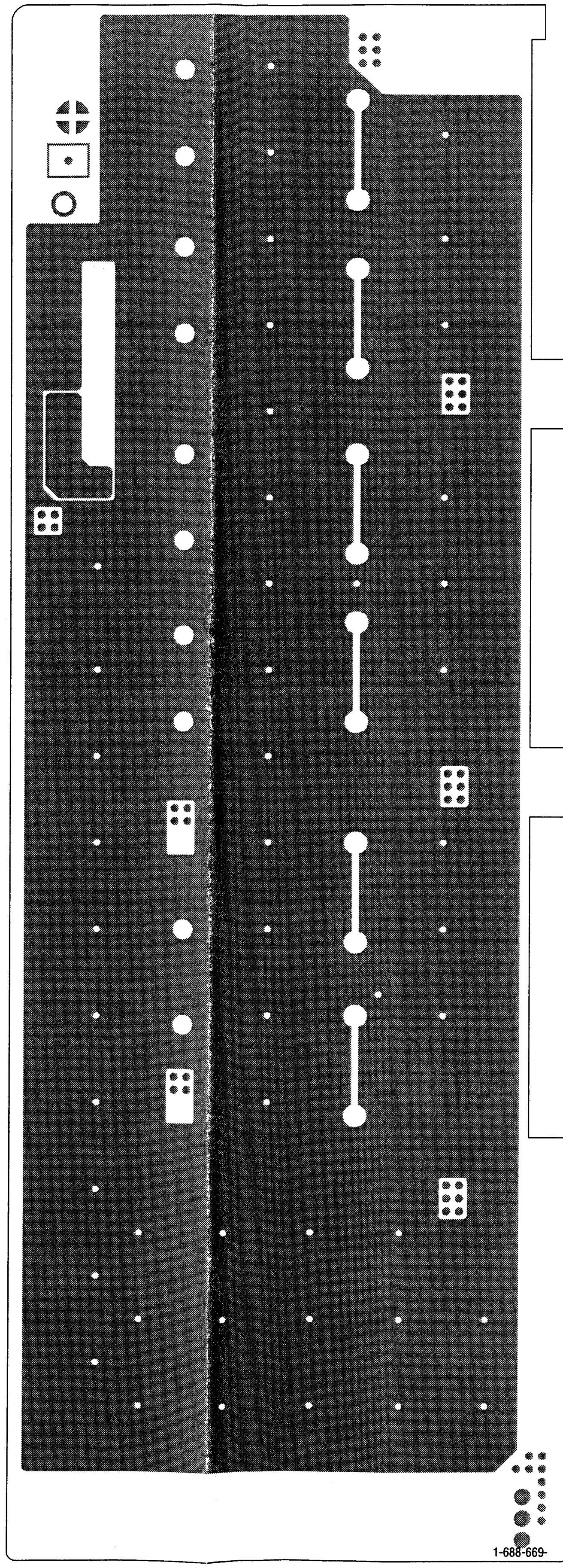
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
【AMP BOARD】(CONDUCTOR SIDE)
(CHASSIS)
EP1501
EP1502
EP1503
EP1504
EP1505
L
FCOIL BOARD
(Page 88)
P
RCOIL BOARD
(Page 90)
F1
F2
F3
F4
F5
F6
F7
F8
F9
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
IC1515
IC1514
IC1513
IC1525
IC1521
IC1524
IC1520
IC1523
IC1522
IC1519
IC1529
IC1528
IC1527
IC1526
Q1503
Q1504
Q1505
Q1506
Q1507
Q1508
Q1509
D1504
D1505
D1506
D1507
D1508
D1509
D1510
D1511
D1512
D1513
D1514
D1515
D1516
D1517
D1518
CN1502
NC
1-688-667-
11
M
MOTHER BOARD
CN816
(Page 77)
K
MOTHER BOARD
CN824
(Page 77)
D
DIGITAL BOARD
CN2006
(Page 37)
N
MOTHER BOARD
CN815
(Page 77)

- **Semiconductor Location**

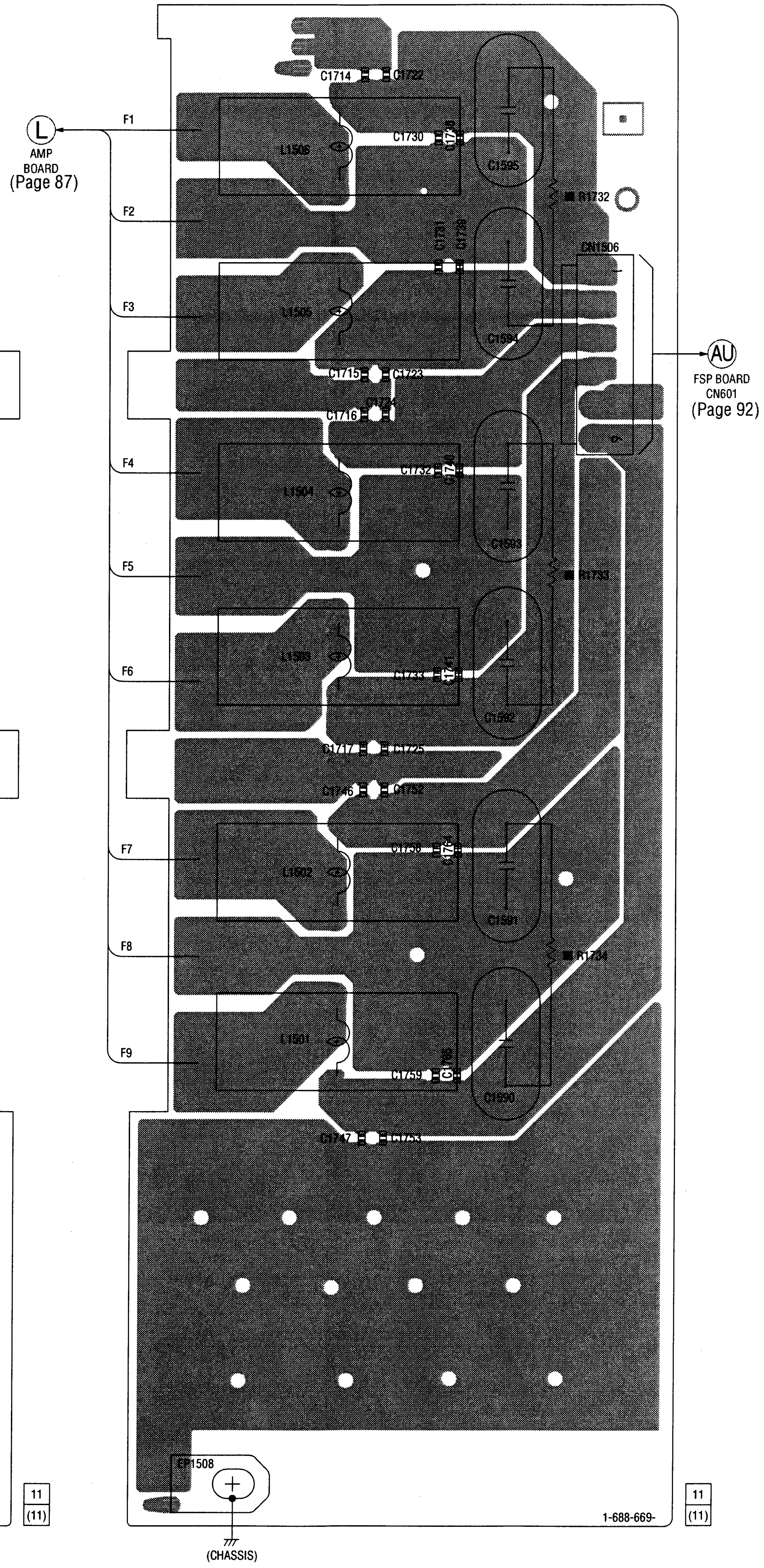
Ref. No.	Location
D1504	G-2
D1505	A-4
D1506	B-4
D1507	C-4
D1508	D-4
D1509	E-4
D1510	F-4
D1511	C-8
D1512	B-8
D1513	D-8
D1514	C-8
D1515	F-8
D1516	E-8
D1517	H-8
D1518	G-8
IC1506	F-5
IC1507	D-5
IC1508	C-5
IC1509	E-5
IC1510	C-5
IC1511	A-5
IC1513	F-3
IC1514	D-3
IC1515	B-3
IC1518	H-7
IC1519	G-7
IC1520	D-7
IC1521	B-7
IC1522	G-7
IC1523	F-7
IC1524	C-7
IC1525	A-7
IC1526	G-9
IC1527	F-9
IC1528	D-9
IC1529	B-9
Q1503	E-3
Q1504	C-3
Q1505	A-3
Q1506	H-9
Q1507	F-9
Q1508	D-9
Q1509	C-9
Q1513	G-2

6-66. PRINTED WIRING BOARD – FCOIL Board – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

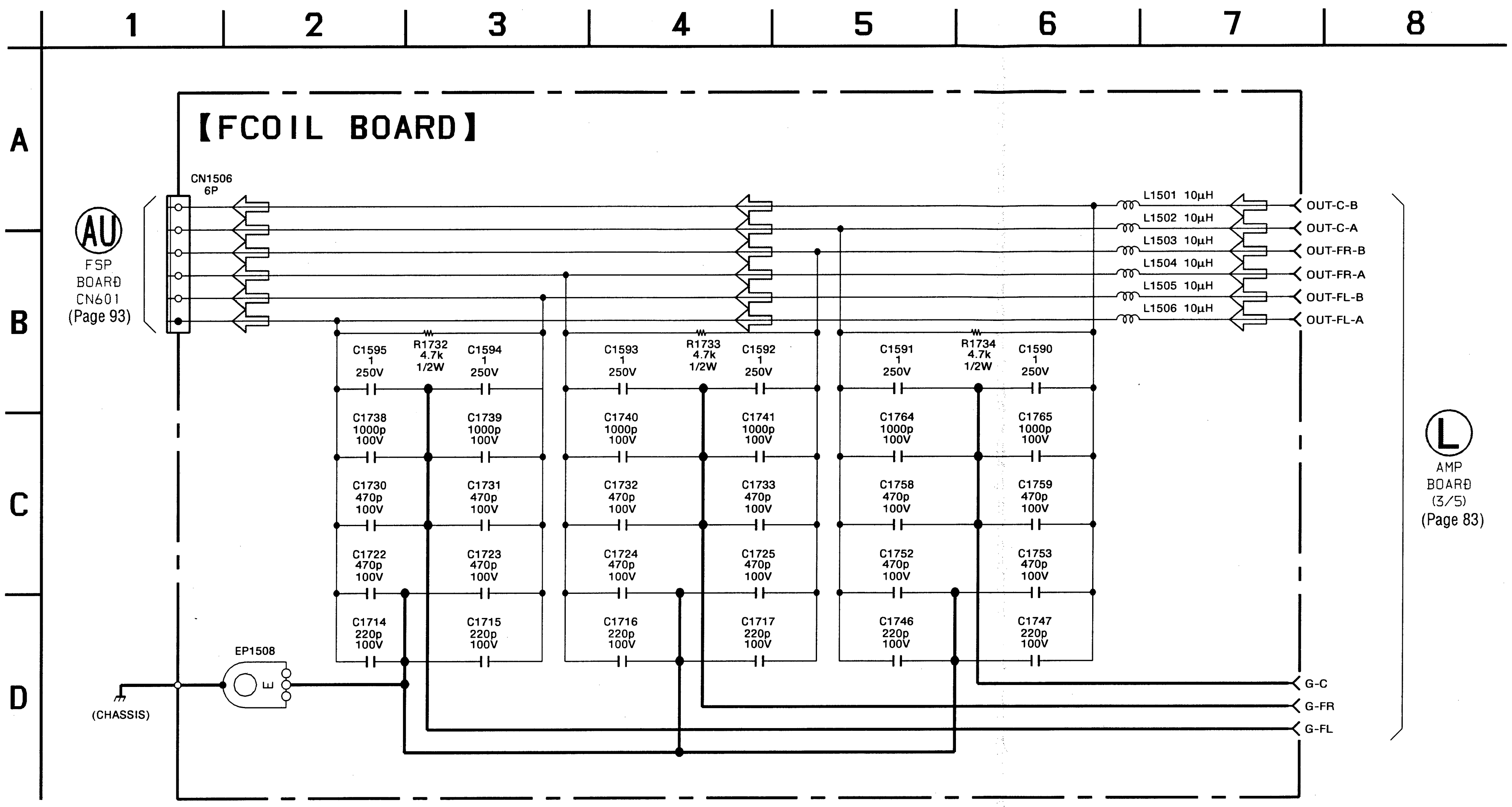
【FCOIL BOARD】(COMPONENT SIDE)


1-688-669-
11
(11)

【FCOIL BOARD】(CONDUCTOR SIDE)


L
AMP BOARD
(Page 87)
F1
F2
F3
F4
F5
F6
F7
F8
F9
C1714
C1722
C1730
L1506
C1595
R1732
C1731
C1739
CN1506
L1505
C1594
C1715
C1723
C1724
C1716
AU
FSP BOARD
CN601
(Page 92)
L1504
C1732
C1593
R1733
L1503
C1733
C1592
C1717
C1725
C1746
C1752
L1502
C1591
R1734
L1501
C1759
C1590
C1747
C1753
EP1508
(CHASSIS)
1-688-669-
11
(11)

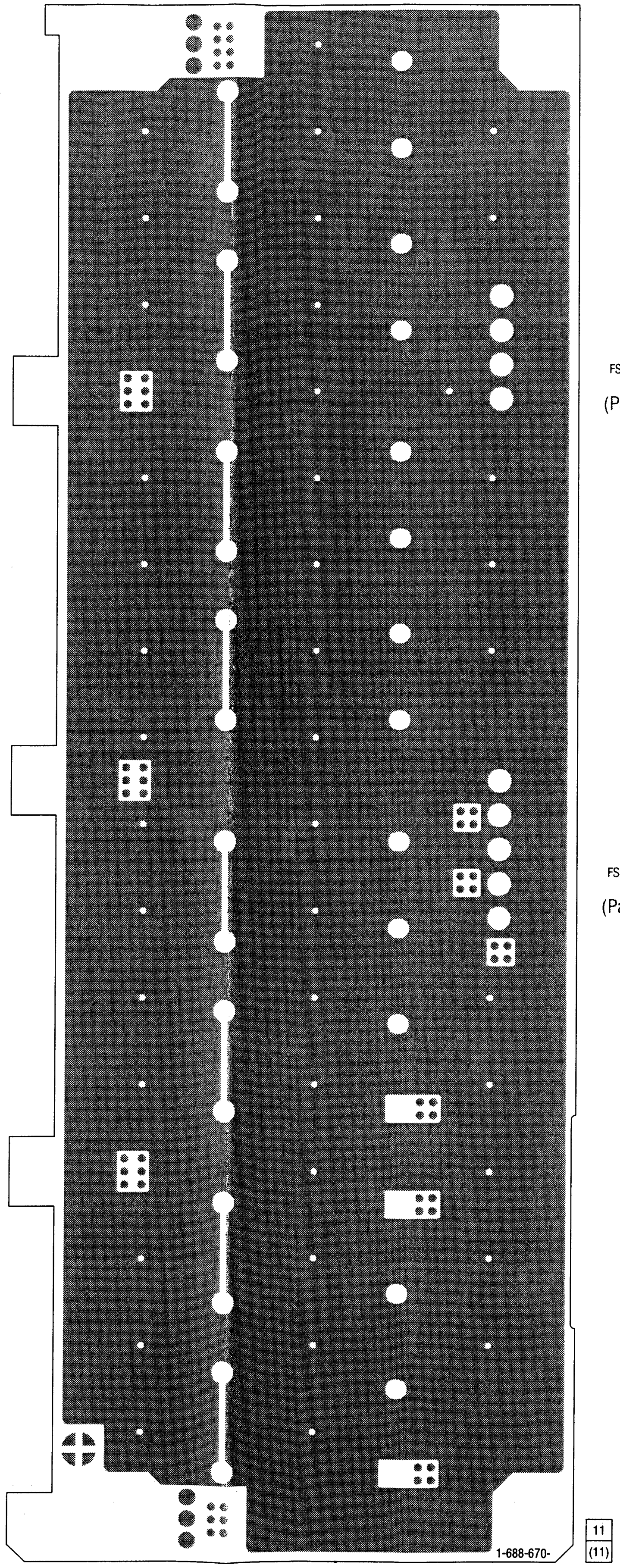
6-67. SCHEMATIC DIAGRAM – FCOIL Board –


1
2
3
4
5
6
7
8
A
B
C
D
【FCOIL BOARD】
CN1506
6P
AU
FSP
BOARD
CN601
(Page 93)
EP1508
E
(CHASSIS)
C1595 1 250V
R1732 4.7k 1/2W
C1594 1 250V
C1593 1 250V
R1733 4.7k 1/2W
C1592 1 250V
C1591 1 250V
R1734 4.7k 1/2W
C1590 1 250V
C1738 1000p 100V
C1739 1000p 100V
C1740 1000p 100V
C1741 1000p 100V
C1764 1000p 100V
C1765 1000p 100V
C1730 470p 100V
C1731 470p 100V
C1732 470p 100V
C1733 470p 100V
C1758 470p 100V
C1759 470p 100V
C1722 470p 100V
C1723 470p 100V
C1724 470p 100V
C1725 470p 100V
C1752 470p 100V
C1753 470p 100V
C1714 220p 100V
C1715 220p 100V
C1716 220p 100V
C1717 220p 100V
C1746 220p 100V
C1747 220p 100V
L1501 10μH
L1502 10μH
L1503 10μH
L1504 10μH
L1505 10μH
L1506 10μH
OUT-C-B
OUT-C-A
OUT-FR-B
OUT-FR-A
OUT-FL-B
OUT-FL-A
G-C
G-FR
G-FL
L
AMP
BOARD
(3/5)
(Page 83)

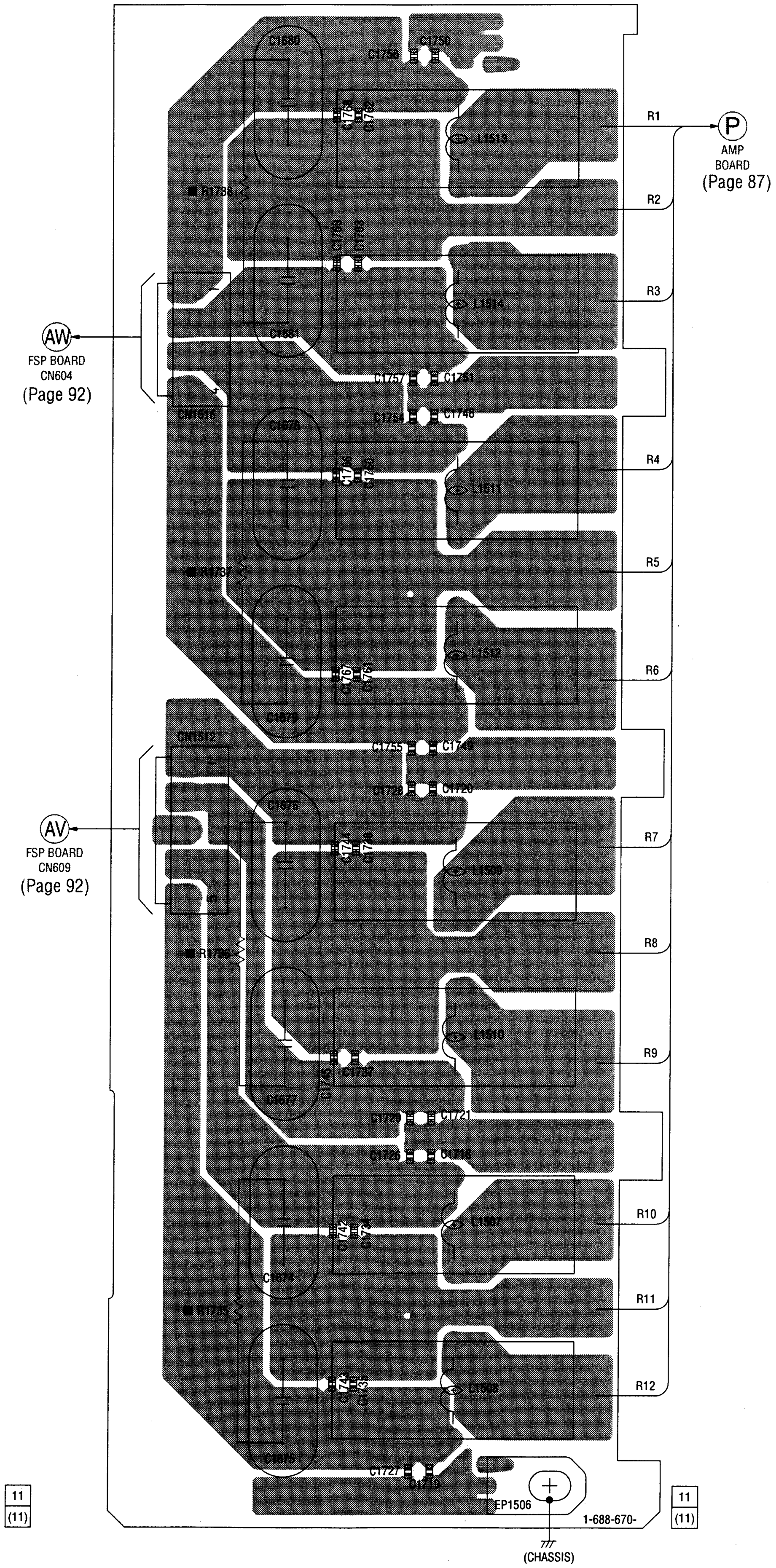
6-68. PRINTED WIRING BOARD – RCOIL Board –

• See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

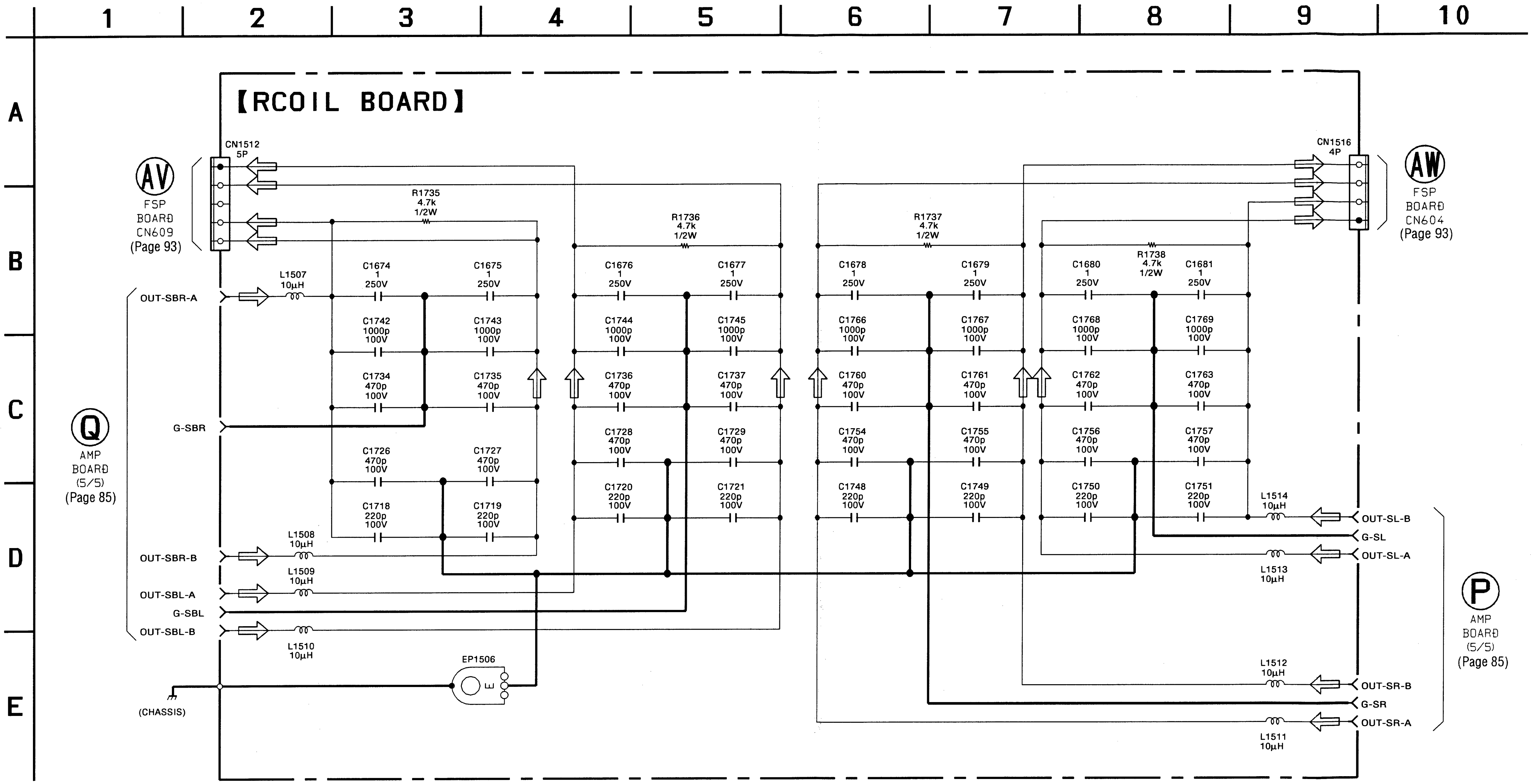
【RCOIL BOARD】(COMPONENT SIDE)


1-688-670-
11
(11)

【RCOIL BOARD】(CONDUCTOR SIDE)


C1680
C1750
C1756
C1763
C1762
L1513
R1738
C1753
C1763
L1514
C1681
C1757
C1751
C1754
C1748
CN1516
C1678
L1511
R1737
L1512
C1679
CN1512
C1755
C1749
C1728
C1720
C1676
L1509
R1736
L1510
C1737
C1745
C1677
C1729
C1721
C1726
C1718
L1507
C1674
R1735
L1508
C1675
C1727
C1719
EP1506
1-688-670-
11
(11)
(CHASSIS)
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
P
AMP
BOARD
(Page 87)
AW
FSP BOARD
CN604
(Page 92)
AV
FSP BOARD
CN609
(Page 92)

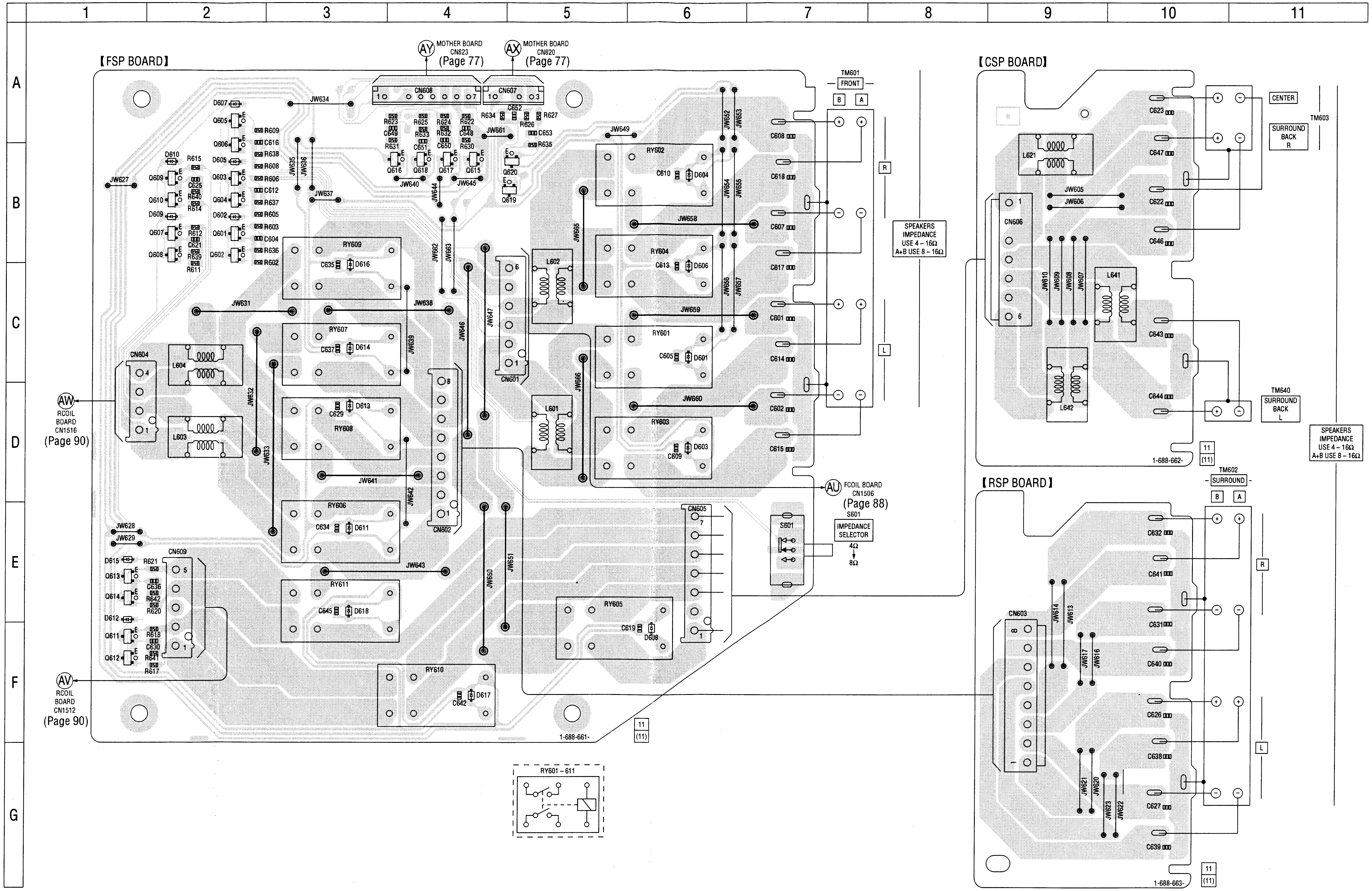
6-69. SCHEMATIC DIAGRAM – RCOIL Board –


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
【RCOIL BOARD】
CN1512
5P
AV
FSP
BOARD
CN609
(Page 93)
CN1516
4P
AW
FSP
BOARD
CN604
(Page 93)
R1735
4.7k
1/2W
R1736
4.7k
1/2W
R1737
4.7k
1/2W
R1738
4.7k
1/2W
L1507
10μH
OUT-SBR-A
C1674
1
250V
C1675
1
250V
C1676
1
250V
C1677
1
250V
C1678
1
250V
C1679
1
250V
C1680
1
250V
C1681
1
250V
C1742
1000p
100V
C1743
1000p
100V
C1744
1000p
100V
C1745
1000p
100V
C1766
1000p
100V
C1767
1000p
100V
C1768
1000p
100V
C1769
1000p
100V
C1734
470p
100V
C1735
470p
100V
C1736
470p
100V
C1737
470p
100V
C1760
470p
100V
C1761
470p
100V
C1762
470p
100V
C1763
470p
100V
Q
AMP
BOARD
(5/5)
(Page 85)
G-SBR
C1728
470p
100V
C1729
470p
100V
C1754
470p
100V
C1755
470p
100V
C1756
470p
100V
C1757
470p
100V
C1726
470p
100V
C1727
470p
100V
C1720
220p
100V
C1721
220p
100V
C1748
220p
100V
C1749
220p
100V
C1750
220p
100V
C1751
220p
100V
C1718
220p
100V
C1719
220p
100V
L1514
10μH
OUT-SL-B
G-SL
OUT-SL-A
L1513
10μH
L1508
10μH
OUT-SBR-B
L1509
10μH
OUT-SBL-A
G-SBL
OUT-SBL-B
L1510
10μH
P
AMP
BOARD
(5/5)
(Page 85)
EP1506
E
(CHASSIS)
L1512
10μH
OUT-SR-B
G-SR
OUT-SR-A
L1511
10μH

6-70. PRINTED WIRING BOARDS – SP Section – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D601	C-6
D602	B-2
D603	D-6
D604	B-6
D605	B-2
D606	C-6
D607	A-2
D608	F-6
D609	B-2
D610	B-2
D611	E-3
D612	E-1
D613	D-3
D614	C-3
D615	E-1
D616	C-3
D617	F-4
D618	E-3
Q601	B-2
Q602	B-2
Q603	B-2
Q604	B-2
Q605	A-2
Q606	B-2
Q607	B-2
Q608	B-2
Q609	B-2
Q610	B-2
Q611	F-1
Q612	F-1
Q613	E-1
Q614	E-1
Q615	B-4
Q616	B-4
Q617	B-4
Q618	B-4
Q619	B-5
Q620	B-5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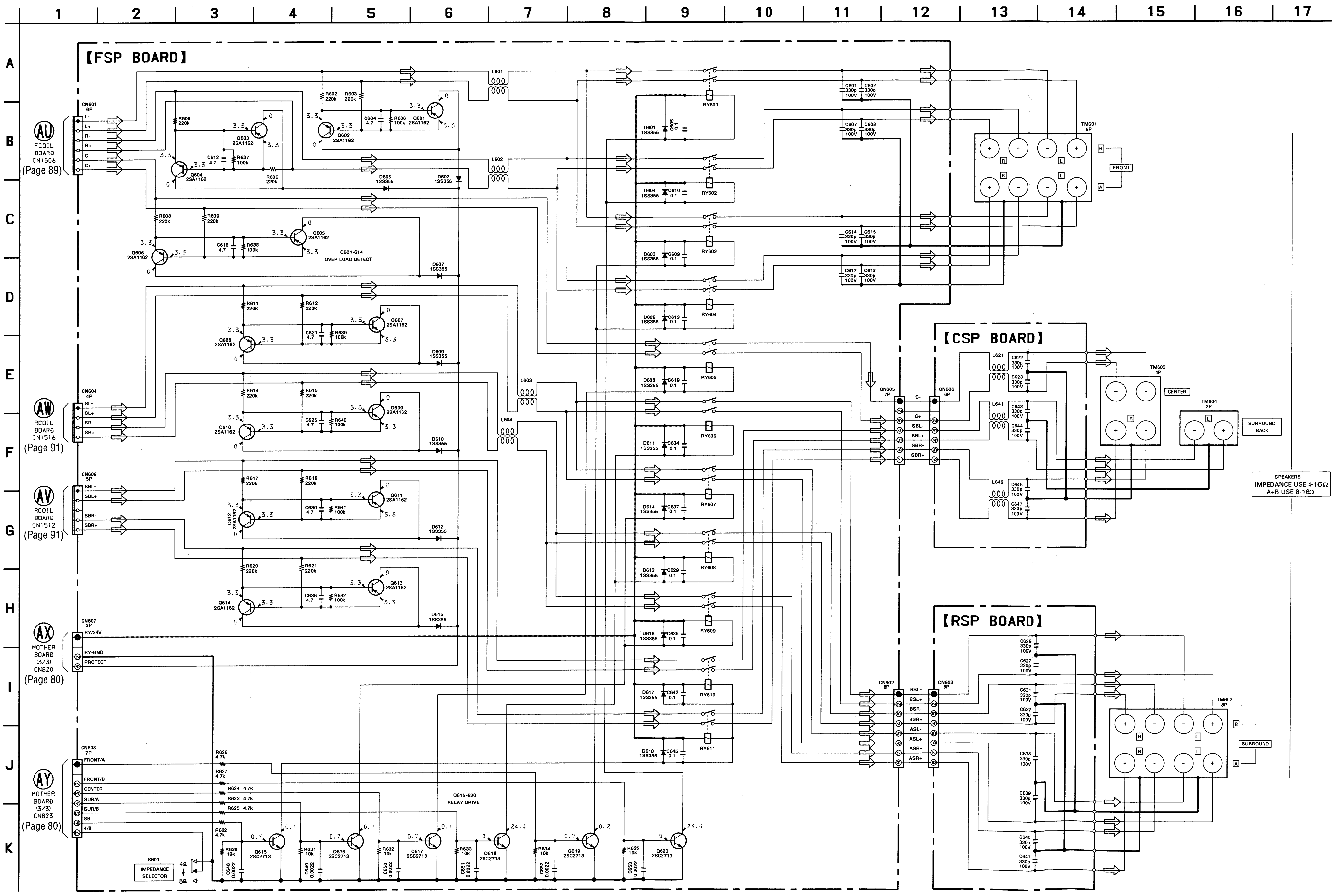
B
C
D
E
F
G
【FSP BOARD】
AY MOTHER BOARD CN823 (Page 77)
AX MOTHER BOARD CN820 (Page 77)
CN608
CN607
TM601
FRONT
B
A
R
L
SPEAKERS IMPEDANCE USE 4 – 16Ω A+B USE 8 – 16Ω
RY602
RY604
RY601
RY603
RY609
RY607
RY608
RY606
RY611
RY610
RY605
CN604
CN601
CN602
CN605
CN609
L604
L603
L602
L601
AW RCOIL BOARD CN1516 (Page 90)
AV RCOIL BOARD CN1512 (Page 90)
AU FCOIL BOARD CN1506 (Page 88)
S601
IMPEDANCE SELECTOR
4Ω
8Ω
1-688-661-
11
(11)
RY601 – 611
【CSP BOARD】
CENTER
TM603
SURROUND BACK R
TM640
SURROUND BACK L
CN606
L621
L641
L642
1-688-662-
SPEAKERS IMPEDANCE USE 4 – 16Ω A+B USE 8 – 16Ω
【RSP BOARD】
TM602
SURROUND
CN603
1-688-663-

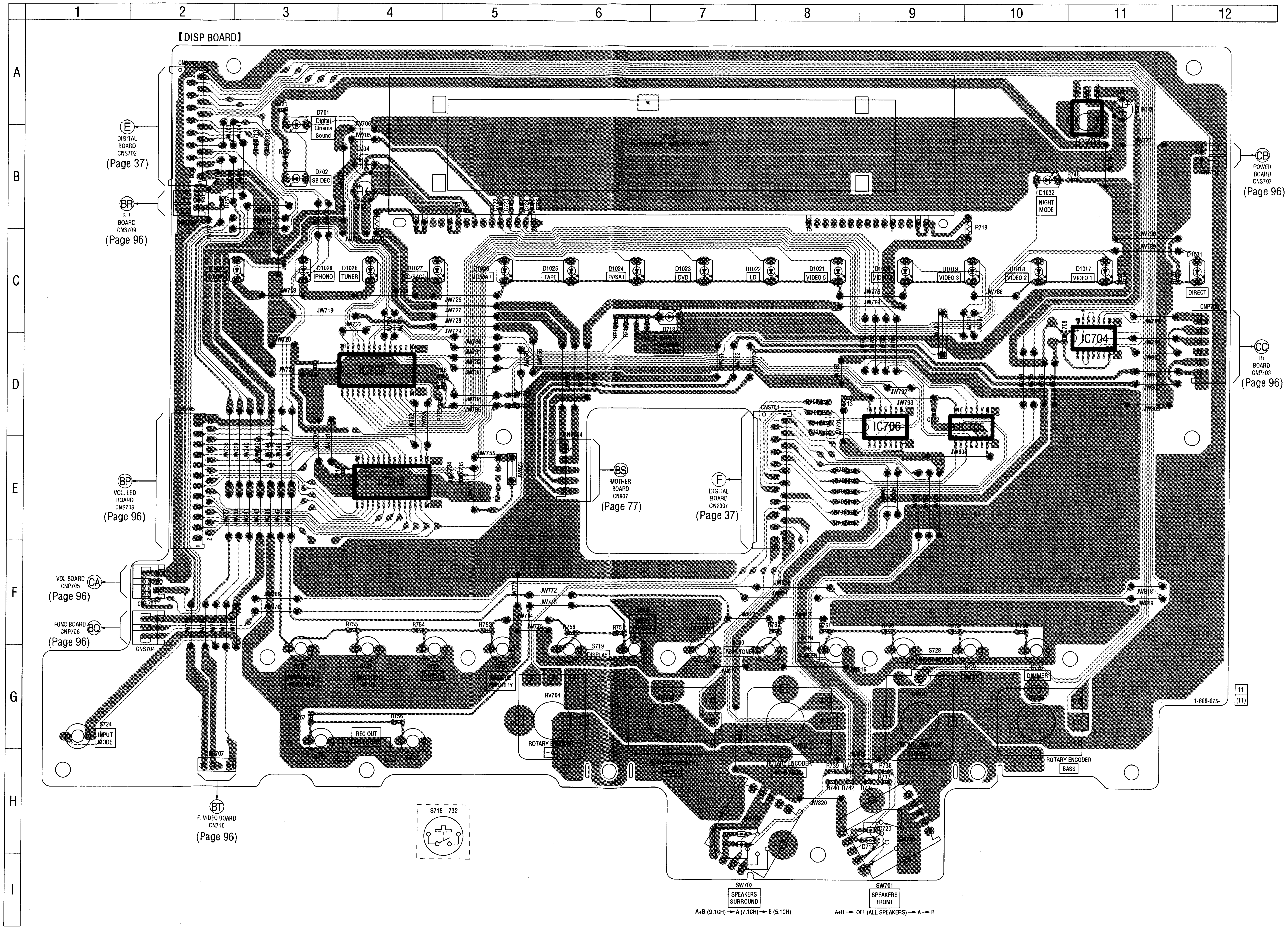
6-71. SCHEMATIC DIAGRAM – SP Section –


【FSP BOARD】
【CSP BOARD】
【RSP BOARD】
AU FCOIL BOARD CN1506 (Page 89)
AW RCOIL BOARD CN1516 (Page 91)
AV RCOIL BOARD CN1512 (Page 91)
AX MOTHER BOARD (3/3) CN820 (Page 80)
AY MOTHER BOARD (3/3) CN823 (Page 80)
CN601 6P
L-
L+
R-
R+
C-
C+
CN604 4P
SL-
SL+
SR-
SR+
CN609 5P
SBL-
SBL+
SBR-
SBR+
CN607 3P
RY/24V
RY-GND
PROTECT
CN608 7P
FRONT/A
FRONT/B
CENTER
SUR/A
SUR/B
SB
4/8
Q601-614 OVER LOAD DETECT
Q615-620 RELAY DRIVE
S601 IMPEDANCE SELECTOR
4Ω
8Ω
L601
L602
L603
L604
RY601
RY602
RY603
RY604
RY605
RY606
RY607
RY608
RY609
RY610
RY611
TM601 8P
FRONT
TM603 4P
CENTER
TM604 2P
SURROUND BACK
TM602 8P
SURROUND
CN605 7P
CN606 6P
CN602 8P
CN603 8P
C-
C+
SBL-
SBL+
SBR-
SBR+
BSL-
BSL+
BSR-
BSR+
ASL-
ASL+
ASR-
ASR+
SPEAKERS
IMPEDANCE USE 4-16Ω
A+B USE 8-16Ω
Q601 2SA1162
Q602 2SA1162
Q603 2SA1162
Q604 2SA1162
Q605 2SA1162
Q606 2SA1162
Q607 2SA1162
Q608 2SA1162
Q609 2SA1162
Q610 2SA1162
Q611 2SA1162
Q612 2SA1162
Q613 2SA1162
Q614 2SA1162
Q615 2SC2713
Q616 2SC2713
Q617 2SC2713
Q618 2SC2713
Q619 2SC2713
Q620 2SC2713
D601 1SS355
D602 1SS355
D603 1SS355
D604 1SS355
D605 1SS355
D606 1SS355
D607 1SS355
D608 1SS355
D609 1SS355
D610 1SS355
D611 1SS355
D612 1SS355
D613 1SS355
D614 1SS355
D615 1SS355
D616 1SS355
D617 1SS355
D618 1SS355
R602 220k
R603 220k
R605 220k
R606 220k
R608 220k
R609 220k
R611 220k
R612 220k
R614 220k
R615 220k
R617 220k
R618 220k
R620 220k
R621 220k
R636 100k
R637 100k
R638 100k
R639 100k
R640 100k
R641 100k
R642 100k
R622 4.7k
R623 4.7k
R624 4.7k
R625 4.7k
R626 4.7k
R627 4.7k
R630 10k
R631 10k
R632 10k
R633 10k
R634 10k
R635 10k
C604 4.7
C612 4.7
C616 4.7
C621 4.7
C625 4.7
C630 4.7
C636 4.7
C605 0.1
C609 0.1
C610 0.1
C613 0.1
C619 0.1
C629 0.1
C634 0.1
C635 0.1
C637 0.1
C642 0.1
C645 0.1
C648 0.0022
C649 0.0022
C650 0.0022
C651 0.0022
C652 0.0022
C653 0.0022
C601 330p 100V
C602 330p 100V
C607 330p 100V
C608 330p 100V
C614 330p 100V
C615 330p 100V
C617 330p 100V
C618 330p 100V
C622 330p 100V
C623 330p 100V
C643 330p 100V
C644 330p 100V
C646 330p 100V
C647 330p 100V
L621
L641
L642
C626 330p 100V
C627 330p 100V
C631 330p 100V
C632 330p 100V
C638 330p 100V
C639 330p 100V
C640 330p 100V
C641 330p 100V
3.3
0
0.7
0.1
0.2
24.4

6-72. PRINTED WIRING BOARD – DISPLAY Section – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D701	A-3
D702	B-3
D718	C-7
D719	H-9
D720	H-9
D721	H-7
D722	H-7
D1017	C-11
D1018	C-10
D1019	C-10
D1020	C-9
D1021	C-8
D1022	C-8
D1023	C-7
D1024	C-6
D1025	C-6
D1026	C-5
D1027	C-4
D1028	C-4
D1029	C-3
D1030	C-3
D1031	C-12
D1032	C-10
IC701	A-11
IC702	D-4
IC703	E-4
IC704	D-11
IC705	D-10
IC706	D-9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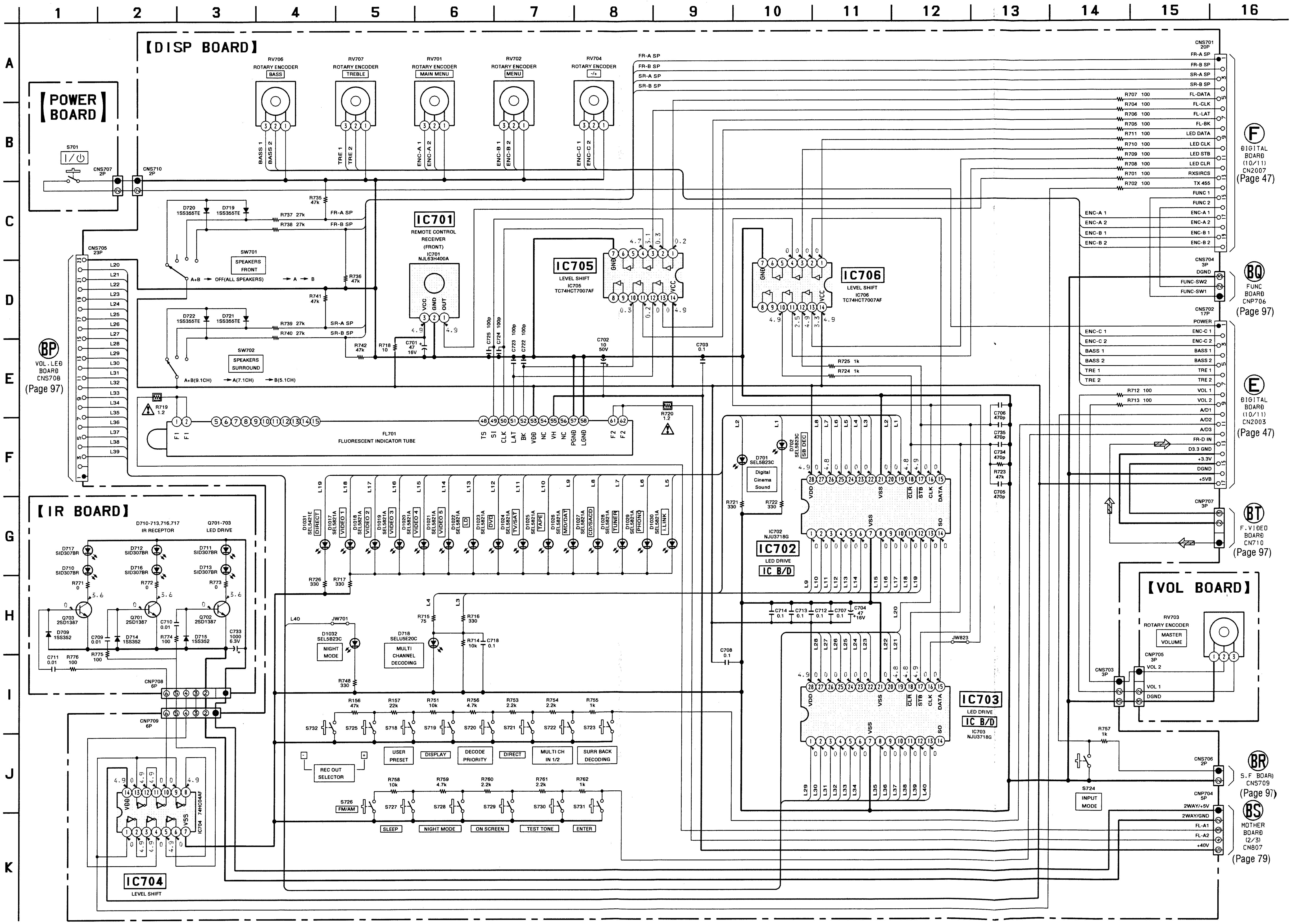
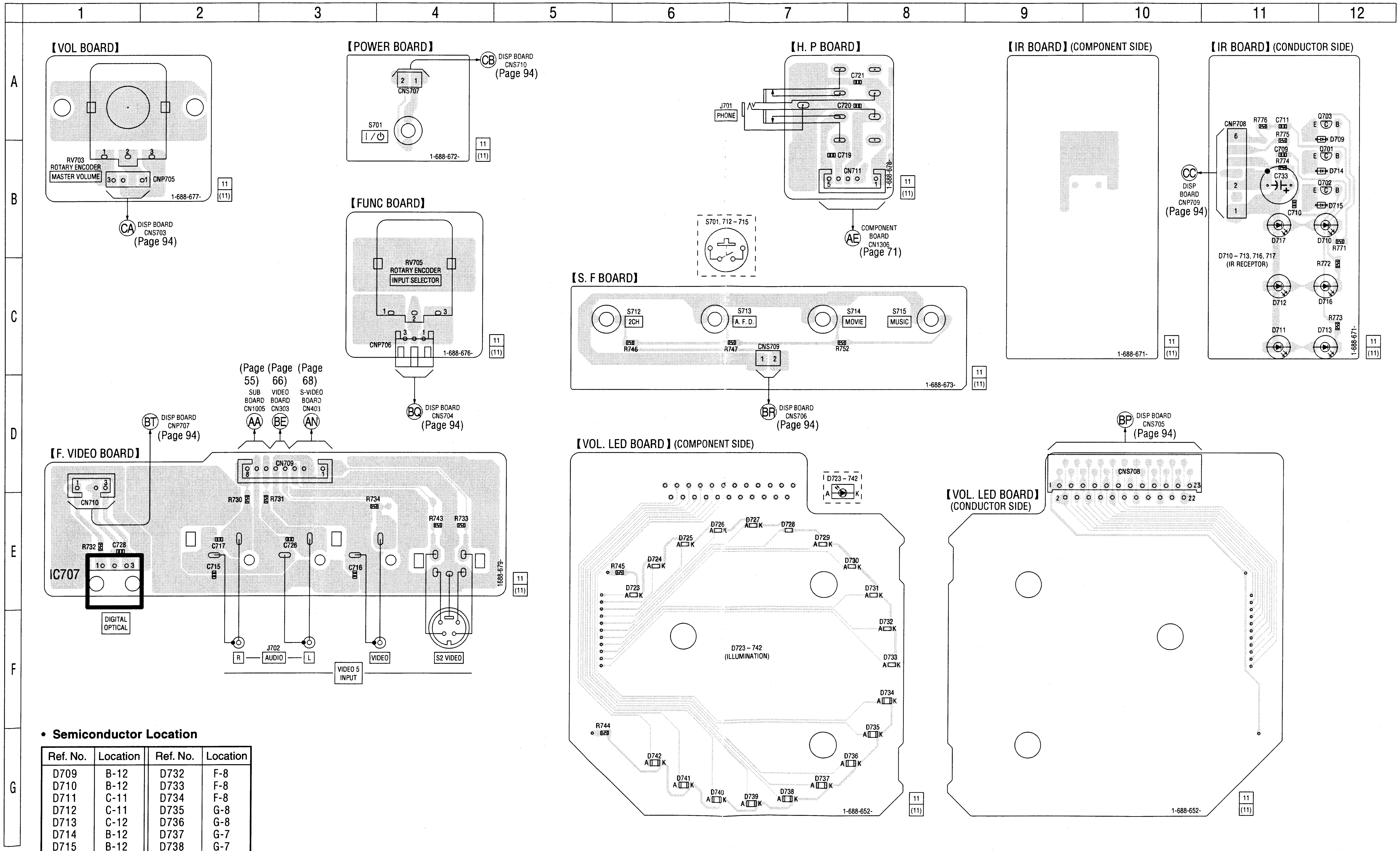
8
9
10
11
12
A
B
C
D
E
F
G
H
I
【DISP BOARD】
E DIGITAL BOARD CNS702 (Page 37)
BR S.F BOARD CNS709 (Page 96)
BP VOL. LED BOARD CNS708 (Page 96)
VOL BOARD CA CNP705 (Page 96)
FUNC BOARD BQ CNP706 (Page 96)
BT F. VIDEO BOARD CN710 (Page 96)
CB POWER BOARD CNS707 (Page 96)
CC IR BOARD CNP708 (Page 96)
BS MOTHER BOARD CN807 (Page 77)
F DIGITAL BOARD CN2007 (Page 37)
ND701 FLUORESCENT INDICATOR TUBE
D701 Digital Cinema Sound
D702 SB DEC
D1032 NIGHT MODE
D1031 DIRECT
D1030 2 CH
D1029 PHONO
D1028 TUNER
D1027 CD/SACD
D1026 MD/DAT
D1025 TAPE
D1024 TV/SAT
D1023 DVD
D1022 LD
D1021 VIDEO 5
D1020 VIDEO 4
D1019 VIDEO 3
D1018 VIDEO 2
D1017 VIDEO 1
D718 MULTI CHANNEL DECODING
IC701
IC702
IC703
IC704
IC705
IC706
S724 INPUT MODE
S723 SURR BACK DECODING
S722 MULTI CH IN 1/2
S721 DIRECT
S720 DECODE PRIORITY
S719 DISPLAY
S718 USER PRESET
S731 ENTER
S730 TEST TONE
S729 ON SCREEN
S728 NIGHT MODE
S727 SLEEP
S726 DIMMER
S725 S732 REC OUT SELECTOR
RV704 ROTARY ENCODER -A-
RV702 ROTARY ENCODER MENU
RV701 ROTARY ENCODER MAIN MENU
RV703 ROTARY ENCODER TREBLE
RV700 ROTARY ENCODER BASS
S718 – 732
SW702 SPEAKERS SURROUND
A+B (9.1CH) → A (7.1CH) → B (5.1CH)
SW701 SPEAKERS FRONT
A+B → OFF (ALL SPEAKERS) → A → B
1-688-675-
11 (11)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-73. SCHEMATIC DIAGRAM – DISPLAY Section –


【DISP BOARD】
【POWER BOARD】
【IR BOARD】
【VOL BOARD】
RV706 ROTARY ENCODER BASS
RV707 ROTARY ENCODER TREBLE
RV701 ROTARY ENCODER MAIN MENU
RV702 ROTARY ENCODER MENU
RV704 ROTARY ENCODER -/+
S701 I/⏻
CNS707 2P
CNS710 2P
CNS705 23P
IC701 REMOTE CONTROL RECEIVER (FRONT) NJL63H400A
IC705 LEVEL SHIFT TC74HCT7007AF
IC706 LEVEL SHIFT TC74HCT7007AF
IC702 LED DRIVE IC B/D NJU3718G
IC703 LED DRIVE IC B/D NJU3718G
IC704 LEVEL SHIFT 74HC04AF
SW701 SPEAKERS FRONT
A+B → OFF(ALL SPEAKERS) → A → B
SW702 SPEAKERS SURROUND
A+B(9.1CH) → A(7.1CH) → B(5.1CH)
FL701 FLUORESCENT INDICATOR TUBE
D701 SEL5823C Digital Cinema Sound
D702 SEL5823C SB DEC
D1031 DIRECT
D1017 VIDEO 1
D1018 VIDEO 2
D1019 VIDEO 3
D1020 VIDEO 4
D1021 VIDEO 5
D1022 LD
D1023 DVD
D1024 TV/SAT
D1025 TAPE
D1026 MD/DAT
D1027 CD/SACD
D1028 TUNER
D1029 PHONO
D1030 i.LINK
D1032 SEL5B23C NIGHT MODE
D718 SELU5E20C MULTI CHANNEL DECODING
D710-713,716,717 IR RECEPTOR
Q701-703 LED DRIVE
S732 S725 S718 S719 S720 S721 S722 S723
USER PRESET
DISPLAY
DECODE PRIORITY
DIRECT
MULTI CH IN 1/2
SURR BACK DECODING
REC OUT SELECTOR
S726 FM/AM
S727 SLEEP
S728 NIGHT MODE
S729 ON SCREEN
S730 TEST TONE
S731 ENTER
S724 INPUT MODE
RV703 ROTARY ENCODER MASTER VOLUME
CNS701 20P
CNS704 3P
CNS702 17P
CNP707 3P
CNS703 3P
CNP705 3P
CNS706 2P
CNP704 5P
CNP708 6P
CNP709 6P
Ⓕ DIGITAL BOARD (10/11) CN2007 (Page 47)
BQ FUNC BOARD CNP706 (Page 97)
Ⓔ DIGITAL BOARD (10/11) CN2003 (Page 47)
BT F.VIDEO BOARD CN710 (Page 97)
BR S.F BOARD CNS709 (Page 97)
BS MOTHER BOARD (2/3) CN807 (Page 79)
BP VOL.LED BOARD CNS708 (Page 97)
FR-A SP
FR-B SP
SR-A SP
SR-B SP
FL-DATA
FL-CLK
FL-LAT
FL-BK
LED DATA
LED CLK
LED STB
LED CLR
RXSIRCS
TX 455
FUNC 1
FUNC 2
ENC-A 1
ENC-A 2
ENC-B 1
ENC-B 2
DGND
FUNC-SW2
FUNC-SW1
POWER
ENC-C 1
ENC-C 2
BASS 1
BASS 2
TRE 1
TRE 2
VOL 1
VOL 2
A/D1
A/D2
A/D3
FR-D IN
D3.3 GND
+3.3V
DGND
+5VB
2WAY/+5V
2WAY/GND
FL-A1
FL-A2
+40V

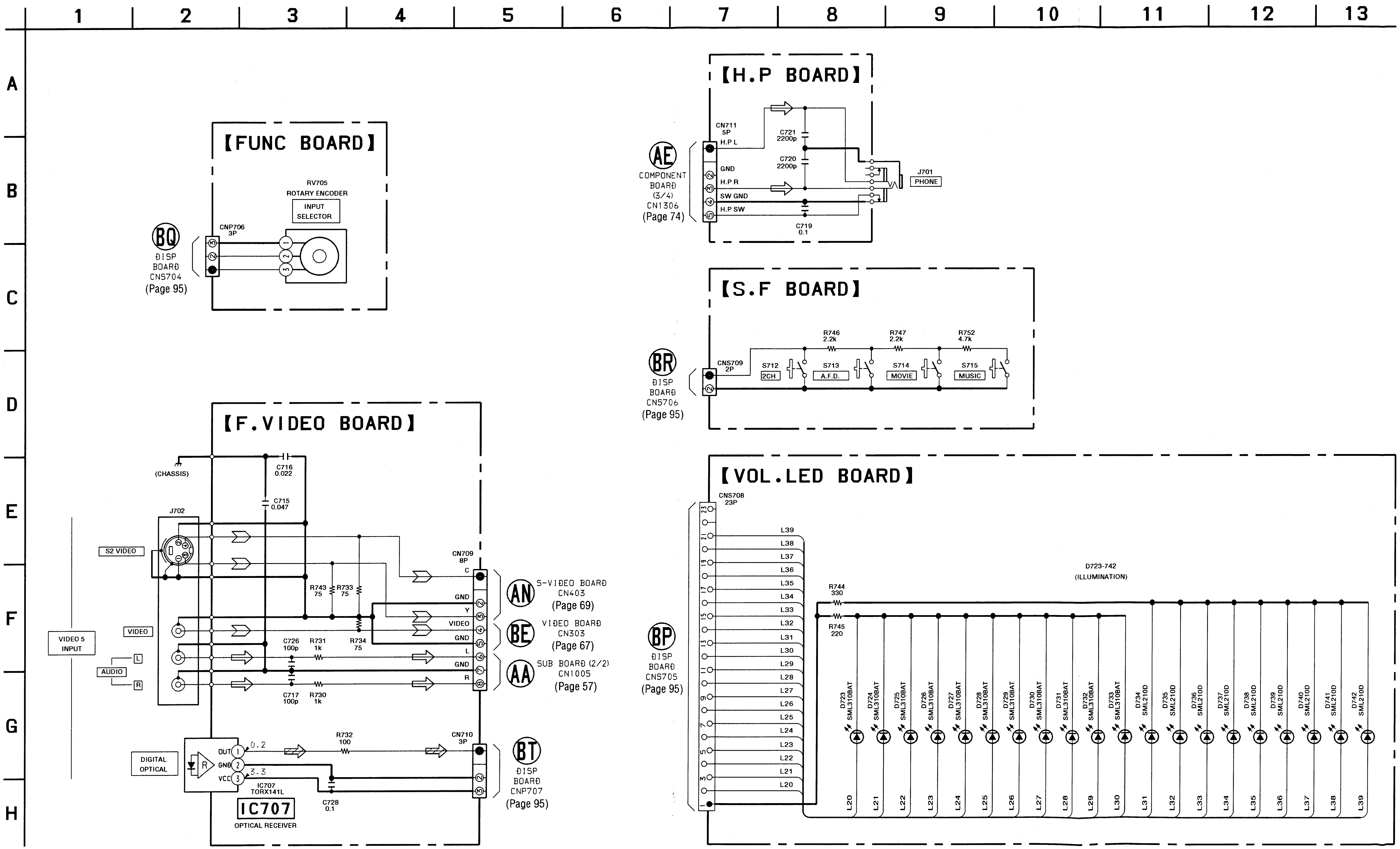
6-74. PRINTED WIRING BOARDS – PANEL Section – • See page 35 for Circuit Boards Location. 🅻🅵 :Uses unleaded solder.


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G
【VOL BOARD】
RV703 ROTARY ENCODER MASTER VOLUME
CNP705
1-688-677-
CA DISP BOARD CNS703 (Page 94)
【POWER BOARD】
CNS707
S701 I/⏻
1-688-672-
CB DISP BOARD CNS710 (Page 94)
【FUNC BOARD】
RV705 ROTARY ENCODER INPUT SELECTOR
CNP706
1-688-676-
BQ DISP BOARD CNS704 (Page 94)
【H. P BOARD】
J701 PHONE
C721 C720 C719
CN711
1-688-678-
AE COMPONENT BOARD CN1306 (Page 71)
S701, 712 – 715
【S. F BOARD】
S712 2CH
S713 A. F. D.
S714 MOVIE
S715 MUSIC
R746 R747 R752
CNS709
1-688-673-
BR DISP BOARD CNS706 (Page 94)
【IR BOARD】(COMPONENT SIDE)
1-688-671-
【IR BOARD】(CONDUCTOR SIDE)
CNP708 R776 C711 R775 C709 R774 C733 C710
Q703 Q701 Q702
D709 D714 D715 D717 D710 R771 R772 D712 D716 R773 D711 D713
D710 – 713, 716, 717 (IR RECEPTOR)
CC DISP BOARD CNP709 (Page 94)
1-688-671-
(Page 55) SUB BOARD CN1005
(Page 66) VIDEO BOARD CN303
(Page 68) S-VIDEO BOARD CN403
AA BE AN
BT DISP BOARD CNP707 (Page 94)
【F. VIDEO BOARD】
CN710 CN709
R730 R731 R734 R743 R733 R732 C728 C717 C726 C715 C716
IC707
DIGITAL OPTICAL
J702 R AUDIO L VIDEO S2 VIDEO
VIDEO 5 INPUT
1-688-679-
【VOL. LED BOARD】(COMPONENT SIDE)
D723 – 742
D723 – 742 (ILLUMINATION)
D724 D725 D726 D727 D728 D729 D730 D731 D732 D733 D734 D735 D736 D737 D738 D739 D740 D741 D742
R745 R744
1-688-652-
BP DISP BOARD CNS705 (Page 94)
【VOL. LED BOARD】(CONDUCTOR SIDE)
CNS708
1-688-652-
11 (11)

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D709	B-12	D732	F-8
D710	B-12	D733	F-8
D711	C-11	D734	F-8
D712	C-11	D735	G-8
D713	C-12	D736	G-8
D714	B-12	D737	G-7
D715	B-12	D738	G-7
D716	C-12	D739	G-7
D717	B-11	D740	G-7
D723	F-6	D741	G-6
D724	E-6	D742	G-6
D725	E-6		
D726	E-7	IC707	E-1
D727	E-7		
D728	E-7	Q701	B-12
D729	E-7	Q702	B-12
D730	E-8	Q703	A-12
D731	F-8		

6-75. SCHEMATIC DIAGRAM – PANEL Section –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12
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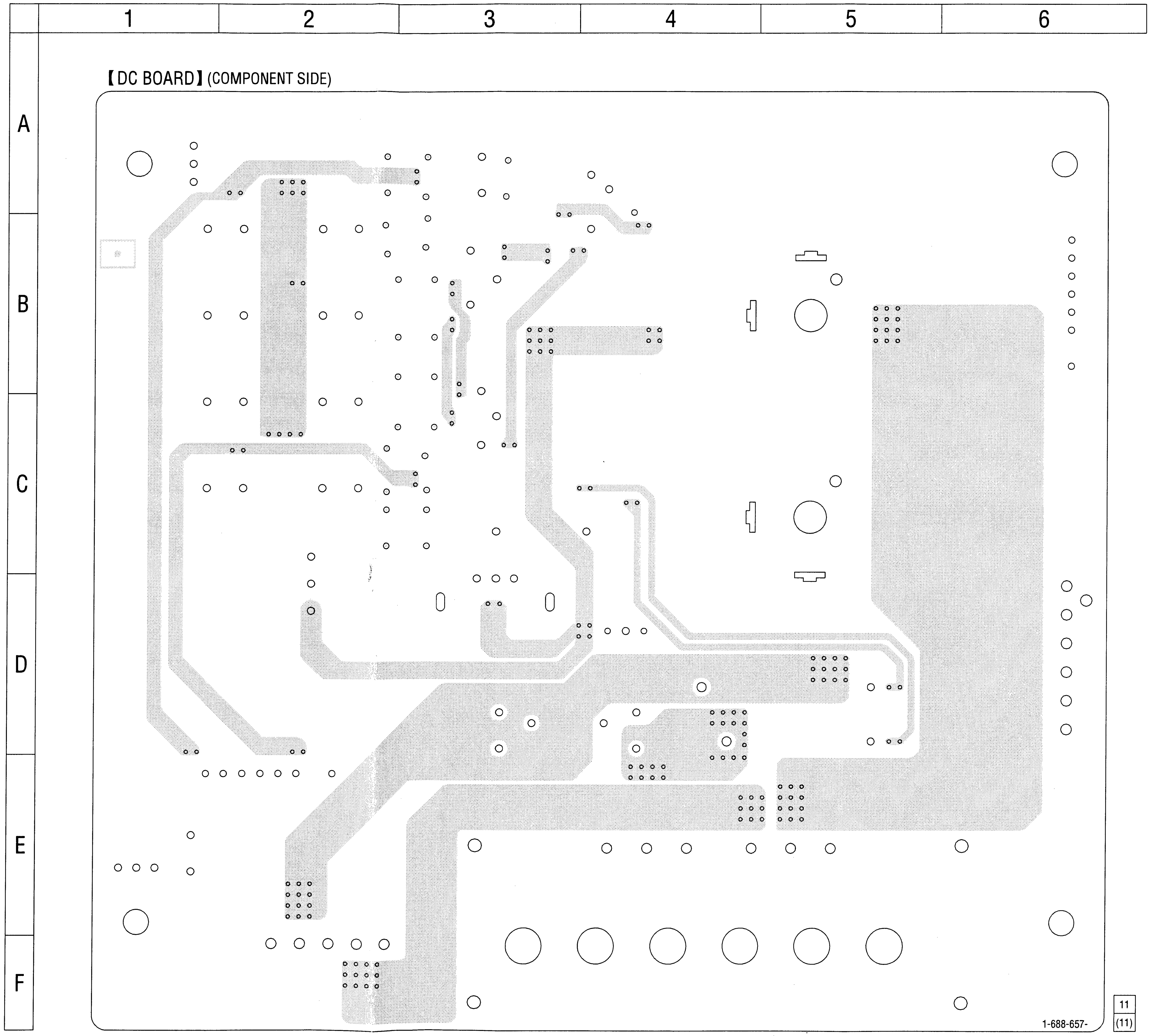
A
B
C
D
E
F
G
H
【FUNC BOARD】
RV705
ROTARY ENCODER
INPUT SELECTOR
CNP706
3P
BQ
DISP BOARD
CNS704
(Page 95)
【H.P BOARD】
CN711
5P
H.P L
GND
H.P R
SW GND
H.P SW
C721
2200p
C720
2200p
C719
0.1
J701
PHONE
AE
COMPONENT BOARD
(3/4)
CN1306
(Page 74)
【S.F BOARD】
CNS709
2P
R746
2.2k
R747
2.2k
R752
4.7k
S712
2CH
S713
A.F.D.
S714
MOVIE
S715
MUSIC
BR
DISP BOARD
CNS706
(Page 95)
【F.VIDEO BOARD】
(CHASSIS)
C716
0.022
C715
0.047
J702
S2 VIDEO
VIDEO
AUDIO
L
R
VIDEO 5
INPUT
R743
75
R733
75
C726
100p
R731
1k
R734
75
C717
100p
R730
1k
CN709
8P
C
GND
Y
VIDEO
GND
L
GND
R
AN
S-VIDEO BOARD
CN403
(Page 69)
BE
VIDEO BOARD
CN303
(Page 67)
AA
SUB BOARD (2/2)
CN1005
(Page 57)
DIGITAL
OPTICAL
OUT
GND
VCC
0.2
3.3
IC707
TORX141L
IC707
OPTICAL RECEIVER
R732
100
C728
0.1
CN710
3P
BT
DISP BOARD
CNP707
(Page 95)
【VOL.LED BOARD】
CNS708
23P
L39
L38
L37
L36
L35
L34
L33
L32
L31
L30
L29
L28
L27
L26
L25
L24
L23
L22
L21
L20
R744
330
R745
220
D723-742
(ILLUMINATION)
D723 SML310BAT
D724 SML310BAT
D725 SML310BAT
D726 SML310BAT
D727 SML310BAT
D728 SML310BAT
D729 SML310BAT
D730 SML310BAT
D731 SML310BAT
D732 SML310BAT
D733 SML310BAT
D734 SML210OD
D735 SML210OD
D736 SML210OD
D737 SML210OD
D738 SML210OD
D739 SML210OD
D740 SML210OD
D741 SML210OD
D742 SML210OD
BP
DISP BOARD
CNS705
(Page 95)

6-76. PRINTED WIRING BOARD – DC Board (Component Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.


1
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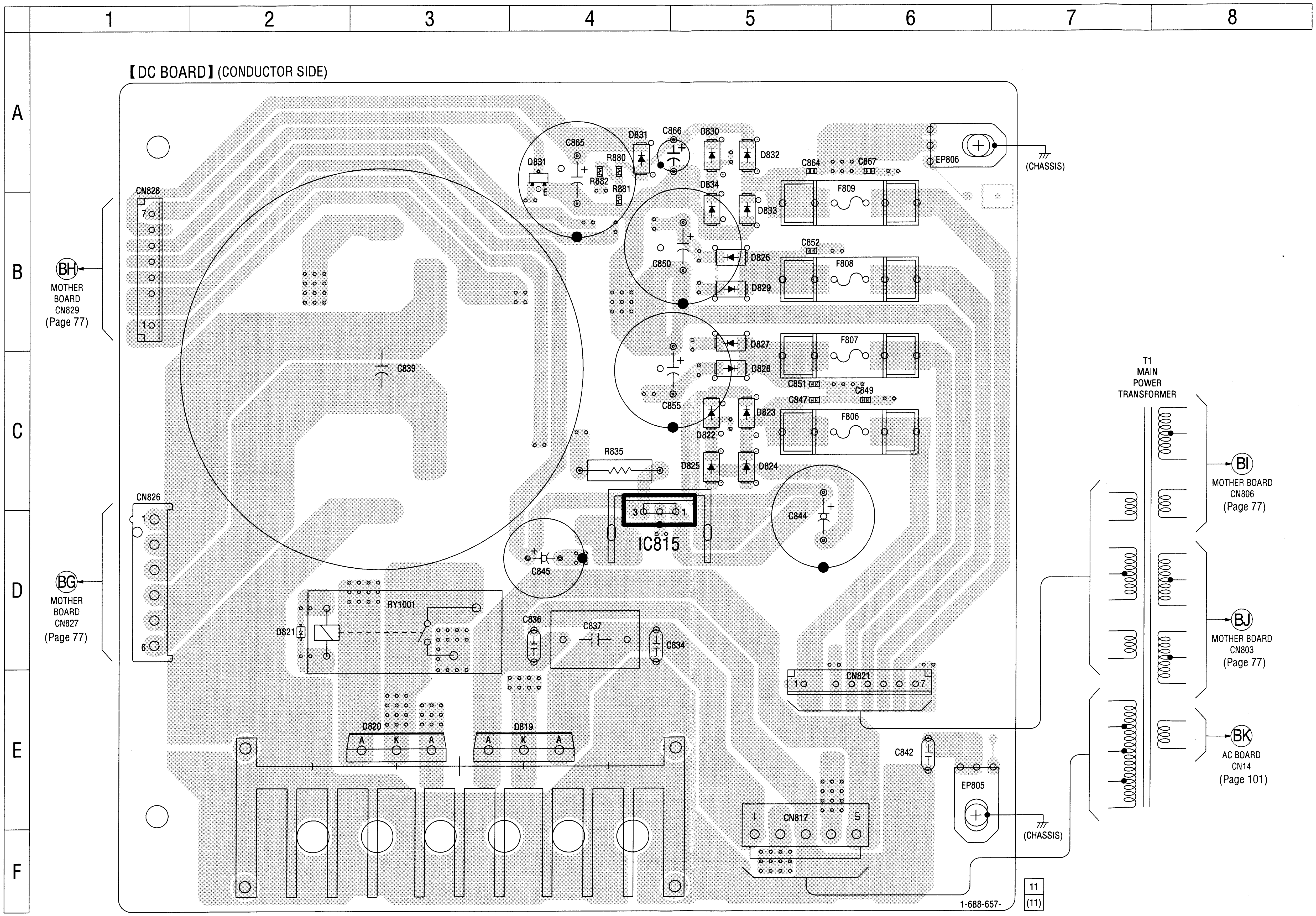
6
A
B
C
D
E
F
【DC BOARD】(COMPONENT SIDE)
1-688-657-
11
(11)

6-77. PRINTED WIRING BOARD – DC Board (Conductor Side) – • See page 35 for Circuit Boards Location. LF :Uses unleaded solder.


1
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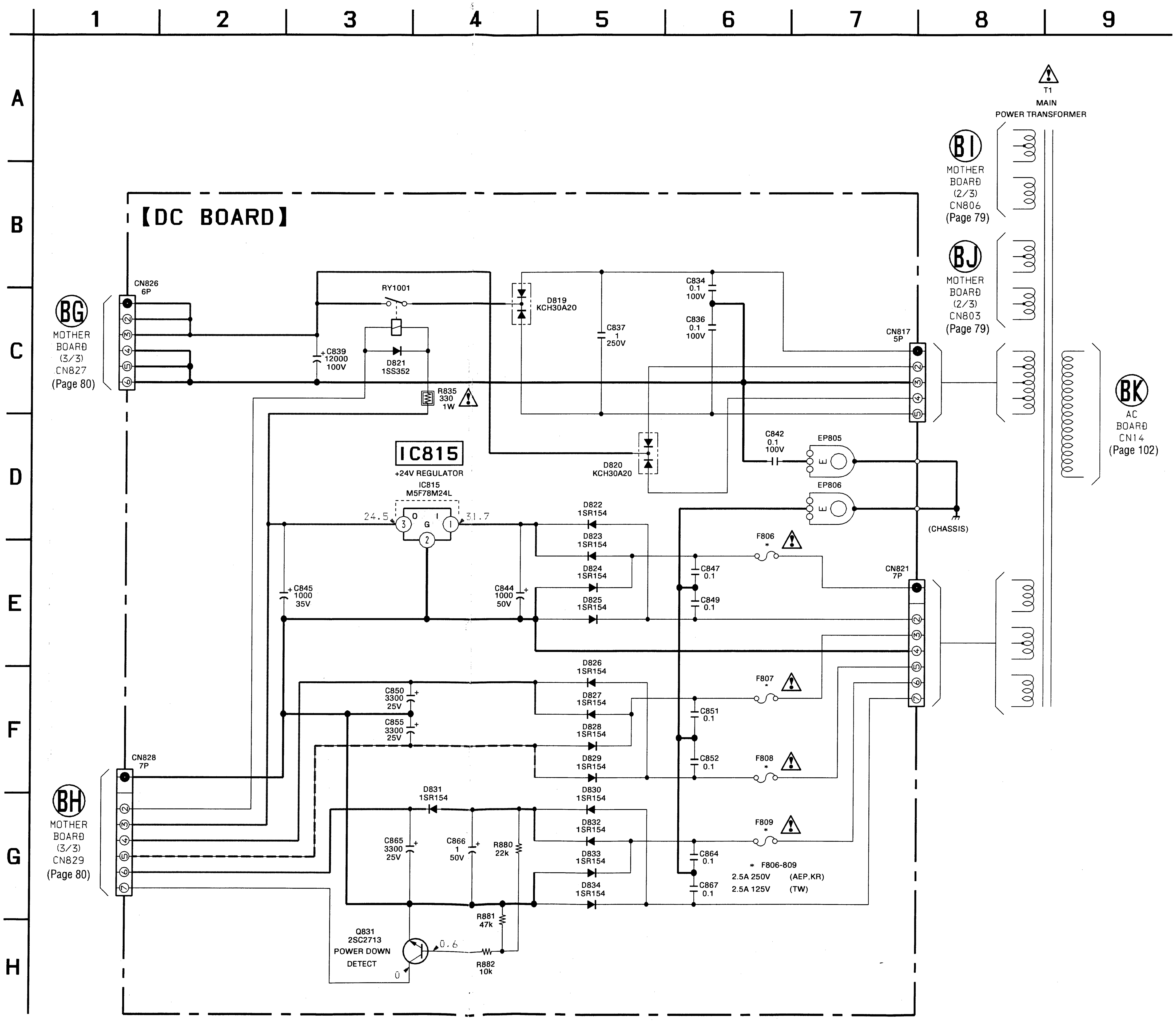
6
7
8
A
B
C
D
E
F
【DC BOARD】(CONDUCTOR SIDE)
CN828
BH
MOTHER BOARD CN829 (Page 77)
CN826
BG
MOTHER BOARD CN827 (Page 77)
C865
Q831
R880
R882
R881
D831
C866
D830
D832
D834
D833
C864
C867
EP806
(CHASSIS)
F809
C852
F808
C850
D826
D829
C839
D827
D828
C855
F807
C851
C847
C849
D823
D822
F806
R835
D825
D824
C844
IC815
C845
RY1001
D821
C836
C837
C834
CN821
D820
D819
A
K
A
C842
EP805
CN817
T1 MAIN POWER TRANSFORMER
BI
MOTHER BOARD CN806 (Page 77)
BJ
MOTHER BOARD CN803 (Page 77)
BK
AC BOARD CN14 (Page 101)
1-688-657-
11
(11)

• **Semiconductor Location**

Ref. No.	Location
D819	E-4
D820	E-3
D821	D-2
D822	C-5
D823	C-5
D824	C-5
D825	C-5
D826	B-5
D827	B-5
D828	C-5
D829	B-5
D830	A-5
D831	A-4
D832	A-5
D833	B-5
D834	B-5
IC815	D-4
Q831	A-4

6-78. SCHEMATIC DIAGRAM – DC Board –


1
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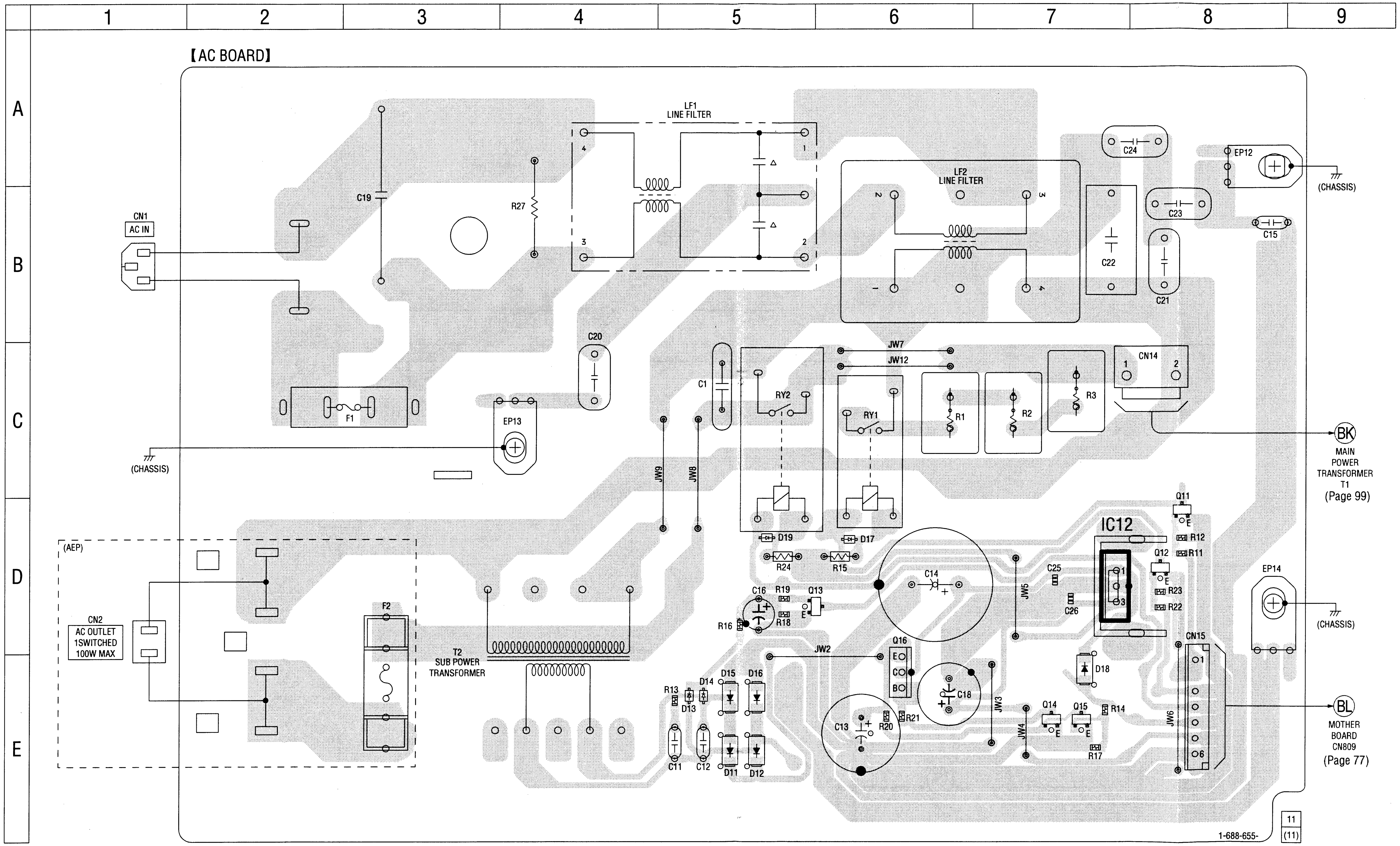
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
【DC BOARD】
T1
MAIN
POWER TRANSFORMER
BI
MOTHER
BOARD
(2/3)
CN806
(Page 79)
BJ
MOTHER
BOARD
(2/3)
CN803
(Page 79)
BK
AC
BOARD
CN14
(Page 102)
BG
MOTHER
BOARD
(3/3)
CN827
(Page 80)
BH
MOTHER
BOARD
(3/3)
CN829
(Page 80)
CN826
6P
CN817
5P
CN821
7P
CN828
7P
RY1001
D819
KCH30A20
D820
KCH30A20
C834
0.1
100V
C836
0.1
100V
C837
1
250V
C839
12000
100V
D821
1SS352
R835
330
1W
IC815
+24V REGULATOR
IC815
M5F78M24L
24.5
31.7
O
I
G
C842
0.1
100V
EP805
EP806
E
(CHASSIS)
D822
1SR154
D823
1SR154
D824
1SR154
D825
1SR154
C845
1000
35V
C844
1000
50V
C847
0.1
C849
0.1
F806
F807
F808
F809
*
D826
1SR154
D827
1SR154
D828
1SR154
D829
1SR154
D830
1SR154
D831
1SR154
D832
1SR154
D833
1SR154
D834
1SR154
C850
3300
25V
C855
3300
25V
C851
0.1
C852
0.1
C864
0.1
C867
0.1
C865
3300
25V
C866
1
50V
R880
22k
R881
47k
R882
10k
Q831
2SC2713
POWER DOWN
DETECT
0.6
0
* F806-809
2.5A 250V (AEP,KR)
2.5A 125V (TW)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

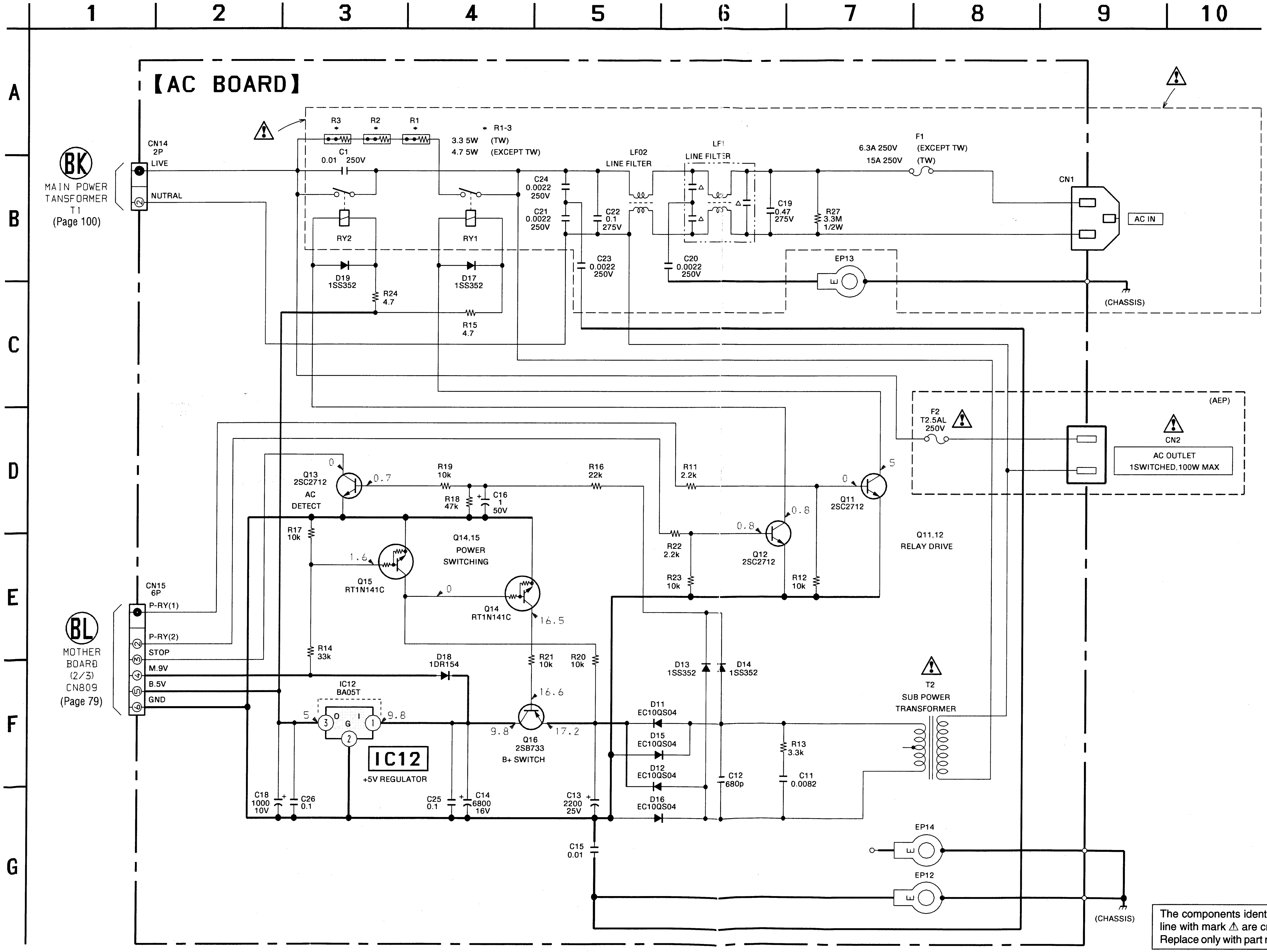
6-79. PRINTED WIRING BOARD – AC Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.


1
2
3
4
5
6
7
8
9
A
B
C
D
E
【AC BOARD】
CN1
AC IN
C19
R27
LF1
LINE FILTER
LF2
LINE FILTER
C24
EP12
(CHASSIS)
C23
C15
C22
C21
C20
C1
RY2
RY1
JW7
JW12
R1
R2
R3
CN14
F1
EP13
(CHASSIS)
JW9
JW8
BK
MAIN
POWER
TRANSFORMER
T1
(Page 99)
Q11
IC12
R12
R11
Q12
R23
R22
C25
C26
D19
D17
R24
R15
C14
JW5
EP14
(CHASSIS)
(AEP)
CN2
AC OUTLET
1SWITCHED
100W MAX
F2
T2
SUB POWER
TRANSFORMER
C16
R19
Q13
R18
R16
JW2
Q16
E
C
B
C18
D18
CN15
BL
MOTHER
BOARD
CN809
(Page 77)
R13
D13
D14
D15
D16
C13
R20
R21
JW3
JW4
Q14
Q15
R14
R17
JW6
C11
C12
D11
D12
1-688-655-
11
(11)

- **Semiconductor Location**

Ref. No.	Location
D11	E-5
D12	E-5
D13	E-5
D14	E-5
D15	E-5
D16	E-5
D17	D-6
D18	E-7
D19	D-5
IC12	D-7
Q11	D-8
Q12	D-8
Q13	D-6
Q14	E-7
Q15	E-7
Q16	E-6

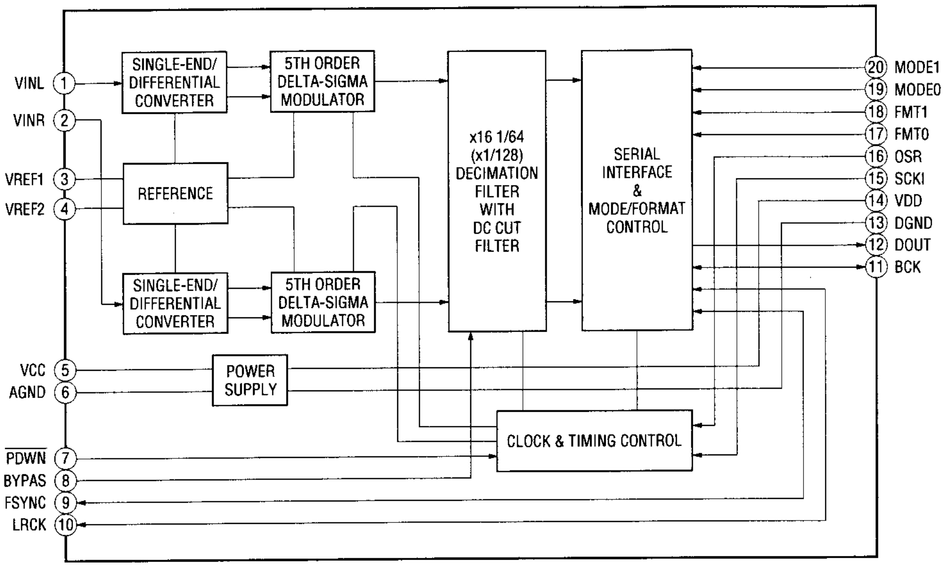
6-80. SCHEMATIC DIAGRAM – AC Board –


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
【AC BOARD】
BK
MAIN POWER TANSFORMER T1
(Page 100)
CN14 2P
LIVE
NUTRAL
R3
R2
R1
* R1-3
3.3 5W (TW)
4.7 5W (EXCEPT TW)
C1 0.01 250V
RY2
RY1
D19 1SS352
D17 1SS352
R24 4.7
R15 4.7
C24 0.0022 250V
C21 0.0022 250V
C22 0.1 275V
C23 0.0022 250V
LF02 LINE FILTER
LF1 LINE FILTER
C20 0.0022 250V
C19 0.47 275V
R27 3.3M 1/2W
6.3A 250V
15A 250V
F1 (EXCEPT TW) (TW)
CN1
AC IN
EP13
(CHASSIS)
(AEP)
F2 T2.5AL 250V
CN2
AC OUTLET 1SWITCHED,100W MAX
Q13 2SC2712
AC DETECT
R19 10k
R18 47k
C16 1 50V
R16 22k
R11 2.2k
Q11 2SC2712
Q12 2SC2712
Q11,12 RELAY DRIVE
R22 2.2k
R23 10k
R12 10k
R17 10k
Q14,15 POWER SWITCHING
Q15 RT1N141C
Q14 RT1N141C
CN15 6P
P-RY(1)
P-RY(2)
STOP
M.9V
B.5V
GND
BL
MOTHER BOARD (2/3) CN809
(Page 79)
R14 33k
D18 1DR154
R21 10k
R20 10k
IC12 BA05T
IC12
+5V REGULATOR
Q16 2SB733
B+ SWITCH
D13 1SS352
D14 1SS352
D11 EC10QS04
D15 EC10QS04
D12 EC10QS04
D16 EC10QS04
C12 680p
R13 3.3k
C11 0.0082
T2 SUB POWER TRANSFORMER
C18 1000 10V
C26 0.1
C25 0.1
C14 6800 16V
C13 2200 25V
C15 0.01
EP14
EP12
(CHASSIS)
0
0.7
1.6
0
16.5
16.6
5
9.8
9.8
17.2
0.8
0.8
0
5

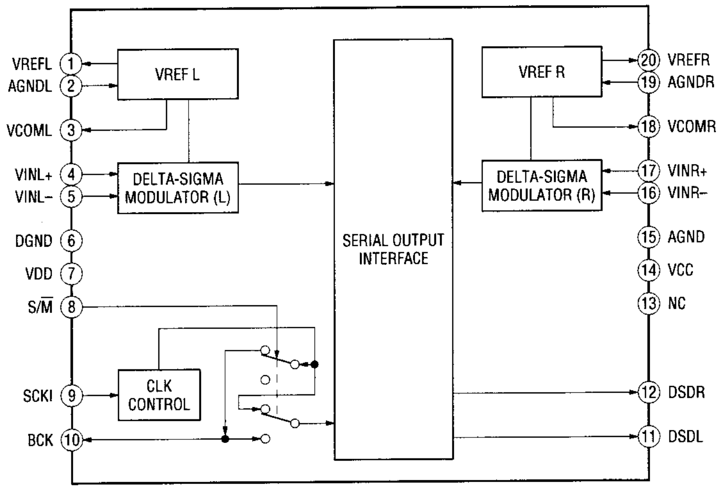
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

• IC Block Diagrams
– DIGITAL Board –

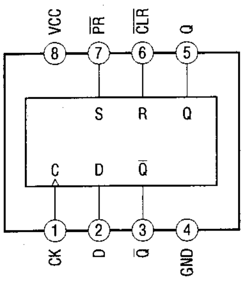
IC2001 PCM1802DBR


VINL 1
VINR 2
VREF1 3
VREF2 4
VCC 5
AGND 6
PDWN 7
BYPAS 8
FSYNC 9
LRCK 10
SINGLE-END/ DIFFERENTIAL CONVERTER
5TH ORDER DELTA-SIGMA MODULATOR
REFERENCE
SINGLE-END/ DIFFERENTIAL CONVERTER
5TH ORDER DELTA-SIGMA MODULATOR
x16 1/64 (x1/128) DECIMATION FILTER WITH DC CUT FILTER
SERIAL INTERFACE & MODE/FORMAT CONTROL
POWER SUPPLY
CLOCK & TIMING CONTROL
20 MODE1
19 MODE0
18 FMT1
17 FMT0
16 OSR
15 SCKI
14 VDD
13 DGND
12 DOUT
11 BCK

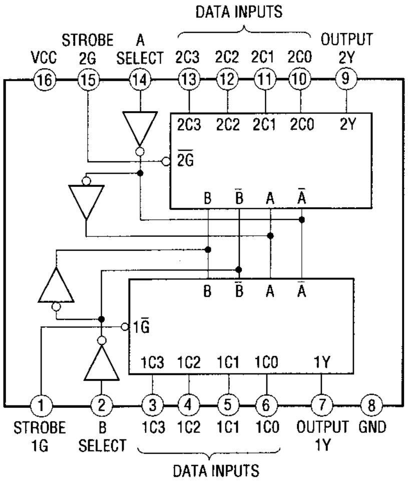
IC2011, 2021, 2031, 2041 DSD1800DBR


VREFL 1
AGNDL 2
VCOML 3
VINL+ 4
VINL– 5
DGND 6
VDD 7
S/M 8
SCKI 9
BCK 10
VREF L
DELTA-SIGMA MODULATOR (L)
CLK CONTROL
SERIAL OUTPUT INTERFACE
VREF R
DELTA-SIGMA MODULATOR (R)
20 VREFR
19 AGNDR
18 VCOMR
17 VINR+
16 VINR–
15 AGND
14 VCC
13 NC
12 DSDR
11 DSDL

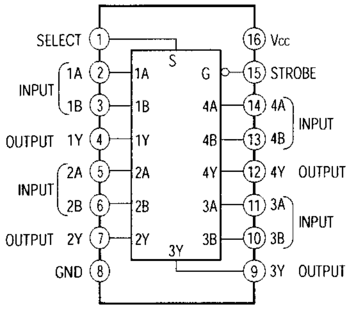
IC2051, 2305, 2430, 2512 TC7WH74FU (TE12R)


VCC
PR
CLR
Q
8
7
6
5
S
R
Q
C
D
Q
1
2
3
4
CK
D
Q
GND

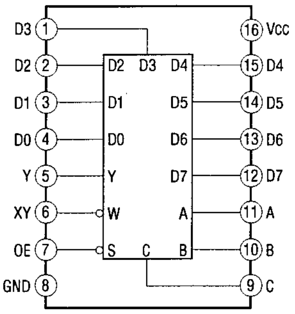
IC2052 TC74VHC153FT (EL)


DATA INPUTS
STROBE 2G
A SELECT
OUTPUT 2Y
VCC
2C3 2C2 2C1 2C0
16 15 14 13 12 11 10 9
2C3 2C2 2C1 2C0 2Y
2G
B B A A
B B A A
1G
1C3 1C2 1C1 1C0 1Y
1 2 3 4 5 6 7 8
STROBE 1G
B SELECT
1C3 1C2 1C1 1C0
OUTPUT 1Y
GND
DATA INPUTS

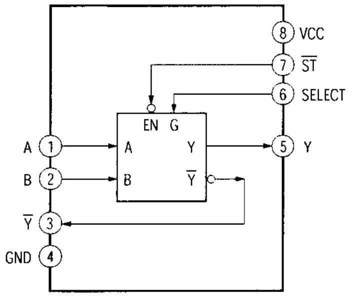
IC2063, 2064 TC74VHC157FT (EL)


SELECT
INPUT 1A
1B
OUTPUT 1Y
INPUT 2A
2B
OUTPUT 2Y
GND
Vcc
STROBE
4A INPUT
4B
4Y OUTPUT
3A INPUT
3B
3Y OUTPUT
S
G
1A
1B
1Y
2A
2B
2Y
4A
4B
4Y
3A
3B
3Y

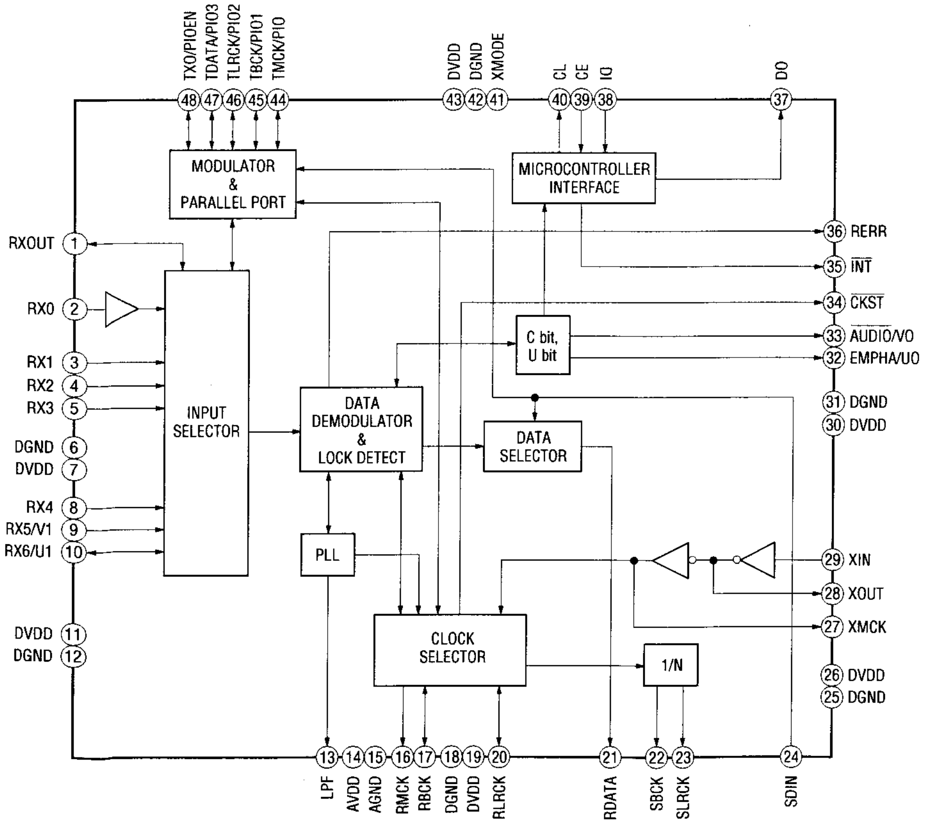
IC2093 TC74HC151AF (EL)


D3
D2
D1
D0
Y
XY
OE
GND
Vcc
D4
D5
D6
D7
A
B
C
D2 D3 D4
D1
D0
Y
W
S C B
D5
D6
D7
A

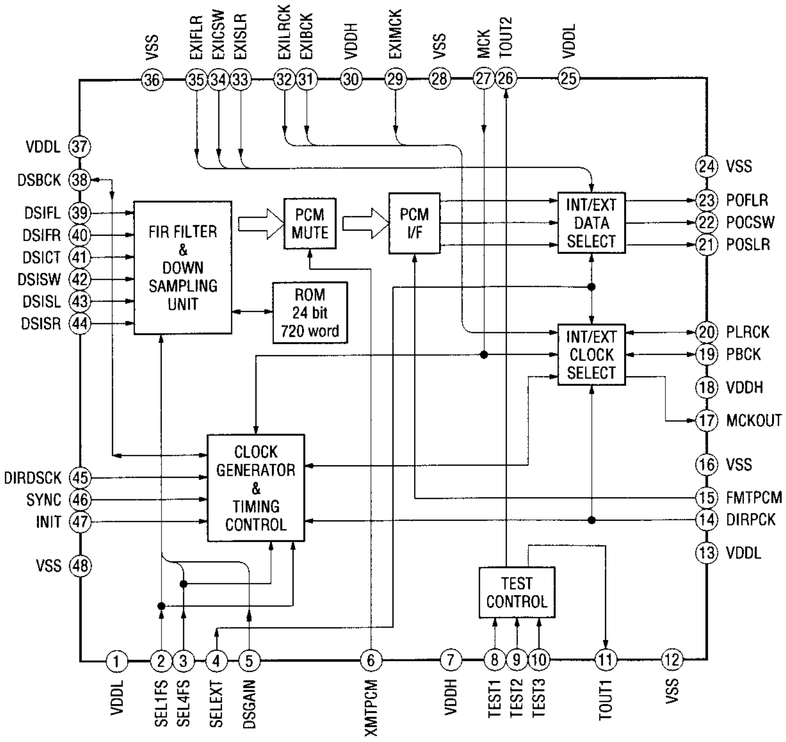
IC2095, 2204, 2207, 2209, 2306, 2307, 2602 TC7WH157FU (TE12R)


VCC
ST
SELECT
EN G
A
B
Y
Y
A
B
Y
Y
GND

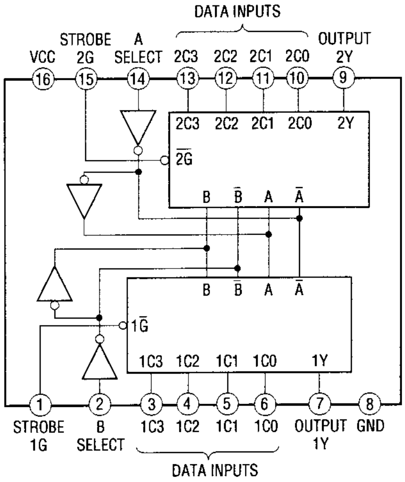
IC2121 LC89057W-VF4-E


TXO/PIOEN
TDATA/PIO3
TLRCK/PIO2
TBCK/PIO1
TMCK/PIO
DVDD
DGND
XMODE
CL
CE
IO
DO
MODULATOR & PARALLEL PORT
MICROCONTROLLER INTERFACE
RXOUT
RX0
RX1
RX2
RX3
DGND
DVDD
RX4
RX5/V1
RX6/U1
DVDD
DGND
INPUT SELECTOR
DATA DEMODULATOR & LOCK DETECT
C bit, U bit
DATA SELECTOR
PLL
CLOCK SELECTOR
1/N
RERR
INT
CKST
AUDIO/VO
EMPHA/UO
DGND
DVDD
XIN
XOUT
XMCK
DVDD
DGND
LPF
AVDD
AGND
RMCK
RBCK
DGND
DVDD
RLRCK
RDATA
SBCK
SLRCK
SDIN

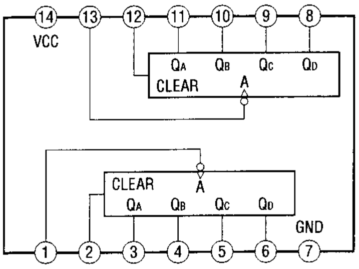
IC2161, 2163 CXD9742Q


VSS 36
EXIFLR 35
EXICSW 34
EXISLR 33
EXILRCK 32
EXIBCK 31
VDDH 30
EXIMCK 29
VSS 28
MCK 27
TOUT2 26
VDDL 25
VDDL 37
DSBCK 38
DSIFL 39
DSIFR 40
DSICT 41
DSISW 42
DSISL 43
DSISR 44
DIRDSCK 45
SYNC 46
INIT 47
VSS 48
FIR FILTER & DOWN SAMPLING UNIT
PCM MUTE
PCM I/F
ROM 24 bit 720 word
INT/EXT DATA SELECT
INT/EXT CLOCK SELECT
CLOCK GENERATOR & TIMING CONTROL
TEST CONTROL
24 VSS
23 POFLR
22 POCSW
21 POSLR
20 PLRCK
19 PBCK
18 VDDH
17 MCKOUT
16 VSS
15 FMTPCM
14 DIRPCK
13 VDDL
1 VDDL
2 SEL1FS
3 SEL4FS
4 SELEXT
5 DSGAIN
6 XMTPCM
7 VDDH
8 TEST1
9 TEST2
10 TEST3
11 TOUT1
12 VSS

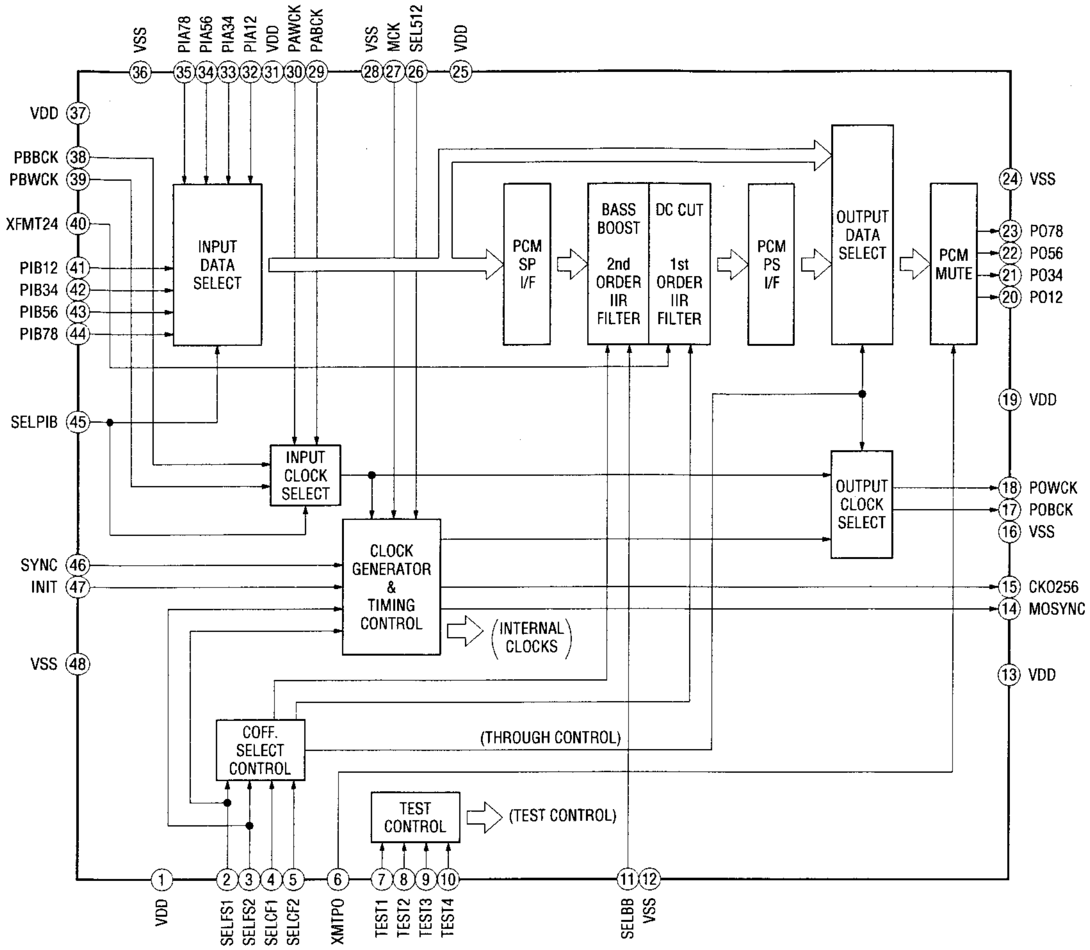
IC2205, 2208 SN74HC153ANS


DATA INPUTS
VCC 16
STROBE 2G 15
A SELECT 14
2C3 13
2C2 12
2C1 11
2C0 10
OUTPUT 2Y 9
2C3 2C2 2C1 2C0 2Y
2G
B B A A
B B A A
1G
1C3 1C2 1C1 1C0 1Y
STROBE 1G 1
B SELECT 2
1C3 3
1C2 4
1C1 5
1C0 6
OUTPUT 1Y 7
GND 8
DATA INPUTS

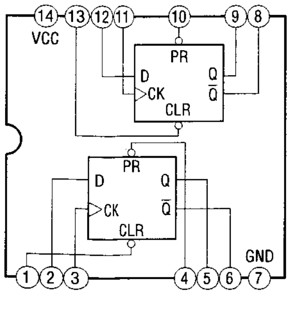
IC2210 TC74VHC393FT (EL)


14 VCC
13
12
11
10
9
8
QA QB QC QD
CLEAR
A
CLEAR
A
QA QB QC QD
GND
1
2
3
4
5
6
7

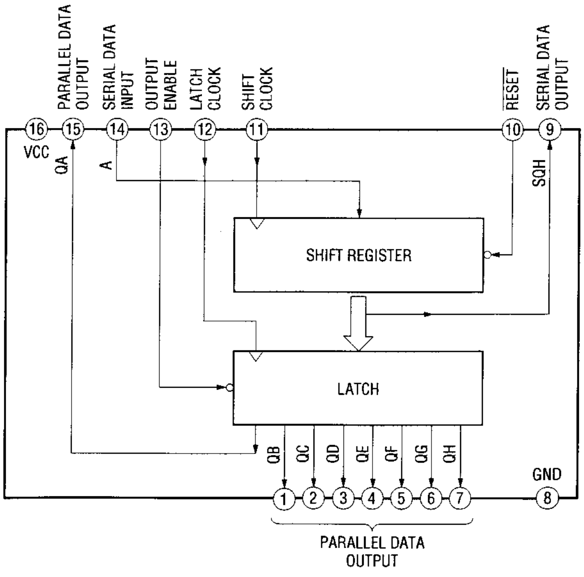
IC2401 CXD9776AQ


VSS 36
PIA78 35
PIA56 34
PIA34 33
PIA12 32
VDD 31
PAWCK 30
PABCK 29
VSS 28
MCK 27
SEL512 26
VDD 25
VDD 37
PBBCK 38
PBWCK 39
XFMT24 40
PIB12 41
PIB34 42
PIB56 43
PIB78 44
SELPIB 45
SYNC 46
INIT 47
VSS 48
INPUT DATA SELECT
PCM SP I/F
BASS BOOST 2nd ORDER IIR FILTER
DC CUT 1st ORDER IIR FILTER
PCM PS I/F
OUTPUT DATA SELECT
PCM MUTE
INPUT CLOCK SELECT
CLOCK GENERATOR & TIMING CONTROL
(INTERNAL CLOCKS)
OUTPUT CLOCK SELECT
COFF. SELECT CONTROL
(THROUGH CONTROL)
TEST CONTROL
(TEST CONTROL)
24 VSS
23 PO78
22 PO56
21 PO34
20 PO12
19 VDD
18 POWCK
17 POBCK
16 VSS
15 CKO256
14 MOSYNC
13 VDD
1 VDD
2 SELFS1
3 SELFS2
4 SELCF1
5 SELCF2
6 XMTPO
7 TEST1
8 TEST2
9 TEST3
10 TEST4
11 SELBB
12 VSS

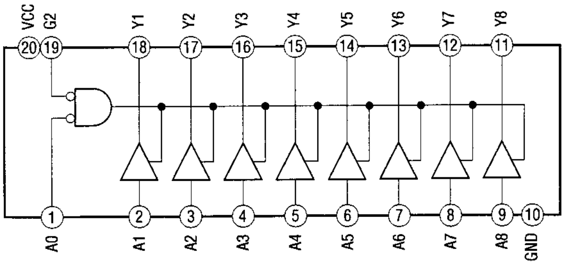
IC2429 TC74VHC74FT (EL)


14
13
12
11
10
9
8
VCC
PR
D
Q
CK
Q̄
CLR
PR
D
Q
CK
Q̄
CLR
GND
1
2
3
4
5
6
7

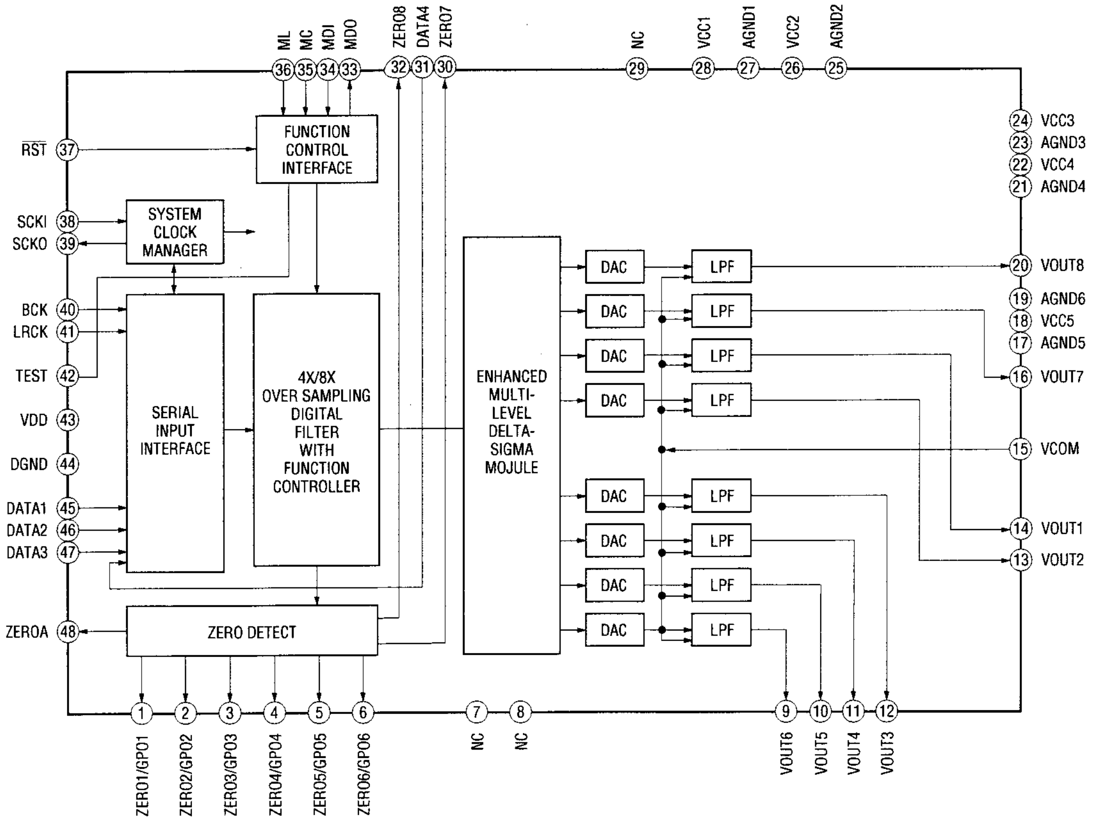
IC2451, 2461, 2462 TC74HC595AF (EL)


PARALLEL DATA OUTPUT
SERIAL DATA INPUT
OUTPUT ENABLE
LATCH CLOCK
SHIFT CLOCK
RESET
SERIAL DATA OUTPUT
16
15
14
13
12
11
10
9
VCC
QA
A
SQH
SHIFT REGISTER
LATCH
QB
QC
QD
QE
QF
QG
QH
GND
1
2
3
4
5
6
7
8
PARALLEL DATA OUTPUT

IC2501, 2504 TC74VHC541FT (EL)

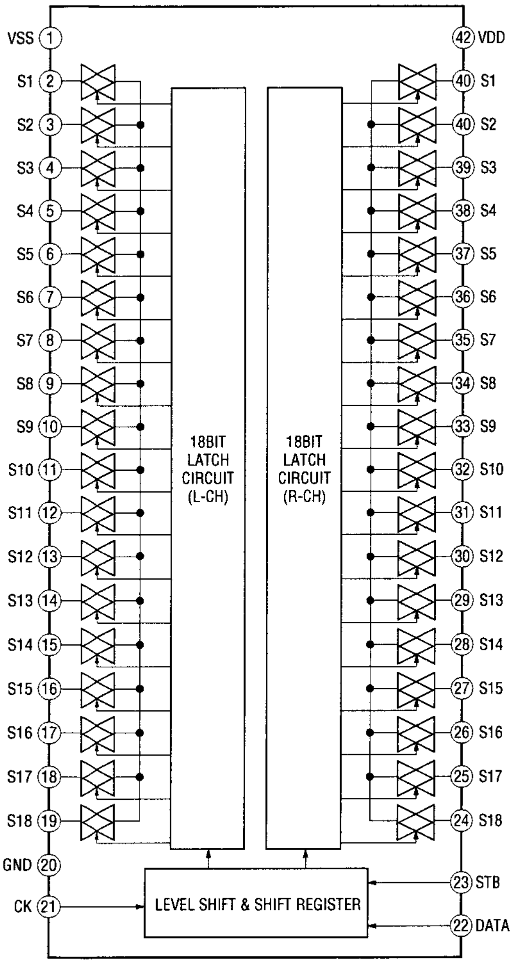

VCC
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
20
19
18
17
16
15
14
13
12
11
1
2
3
4
5
6
7
8
9
10
A0
A1
A2
A3
A4
A5
A6
A7
A8
GND

IC2901 PCM1609KPTR

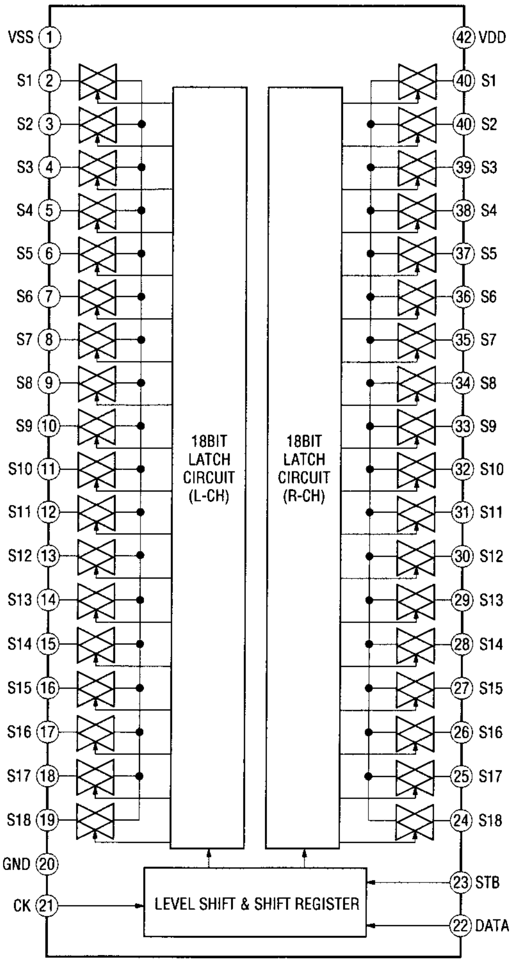

ML
MC
MDI
MDO
ZERO8
DATA4
ZERO7
NC
VCC1
AGND1
VCC2
AGND2
36
35
34
33
32
31
30
29
28
27
26
25
24 VCC3
23 AGND3
22 VCC4
21 AGND4
20 VOUT8
19 AGND6
18 VCC5
17 AGND5
16 VOUT7
15 VCOM
14 VOUT1
13 VOUT2
RST 37
SCKI 38
SCKO 39
BCK 40
LRCK 41
TEST 42
VDD 43
DGND 44
DATA1 45
DATA2 46
DATA3 47
ZEROA 48
FUNCTION CONTROL INTERFACE
SYSTEM CLOCK MANAGER
SERIAL INPUT INTERFACE
4X/8X OVER SAMPLING DIGITAL FILTER WITH FUNCTION CONTROLLER
ENHANCED MULTI-LEVEL DELTA-SIGMA MOJULE
ZERO DETECT
DAC
LPF
1
2
3
4
5
6
7
8
9
10
11
12
ZERO1/GPO1
ZERO2/GPO2
ZERO3/GPO3
ZERO4/GPO4
ZERO5/GPO5
ZERO6/GPO6
NC
NC
VOUT6
VOUT5
VOUT4
VOUT3

– MAIN Board –

IC101, 102 TC9274N-016

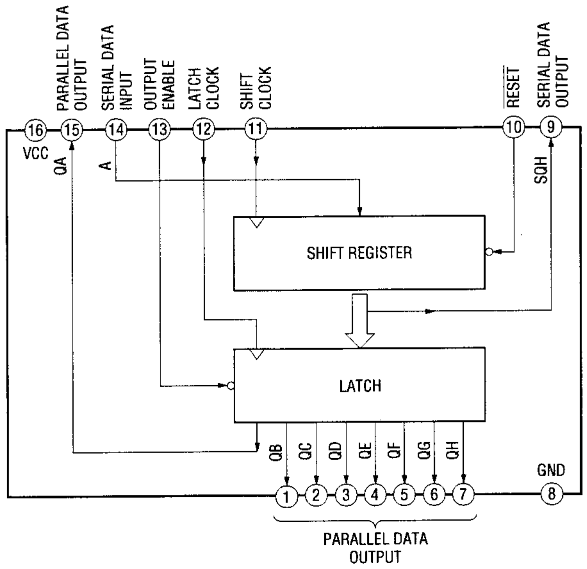

VSS 1
S1 2
S2 3
S3 4
S4 5
S5 6
S6 7
S7 8
S8 9
S9 10
S10 11
S11 12
S12 13
S13 14
S14 15
S15 16
S16 17
S17 18
S18 19
GND 20
CK 21
42 VDD
40 S1
40 S2
39 S3
38 S4
37 S5
36 S6
35 S7
34 S8
33 S9
32 S10
31 S11
30 S12
29 S13
28 S14
27 S15
26 S16
25 S17
24 S18
23 STB
22 DATA
18BIT LATCH CIRCUIT (L-CH)
18BIT LATCH CIRCUIT (R-CH)
LEVEL SHIFT & SHIFT REGISTER

IC103, 105 TC9274N-015

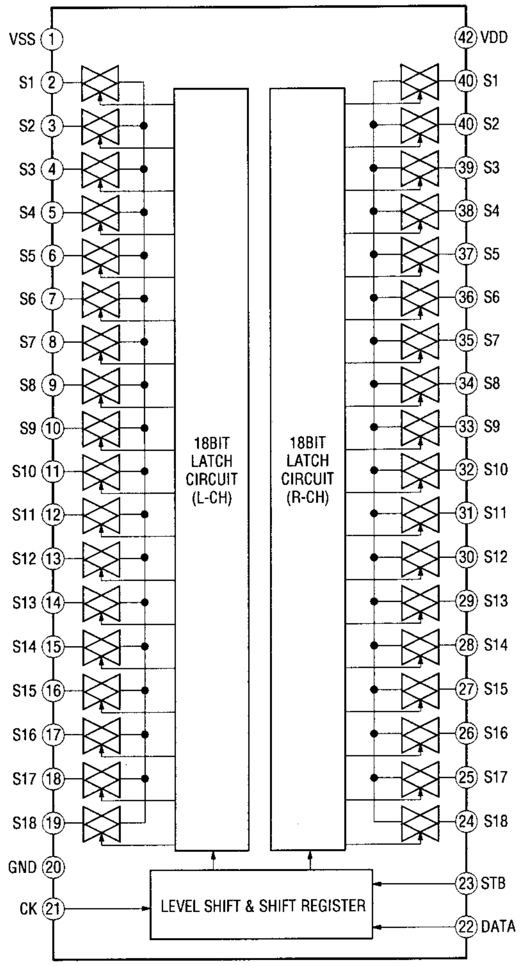

VSS 1
S1 2
S2 3
S3 4
S4 5
S5 6
S6 7
S7 8
S8 9
S9 10
S10 11
S11 12
S12 13
S13 14
S14 15
S15 16
S16 17
S17 18
S18 19
GND 20
CK 21
42 VDD
40 S1
40 S2
39 S3
38 S4
37 S5
36 S6
35 S7
34 S8
33 S9
32 S10
31 S11
30 S12
29 S13
28 S14
27 S15
26 S16
25 S17
24 S18
23 STB
22 DATA
18BIT LATCH CIRCUIT (L-CH)
18BIT LATCH CIRCUIT (R-CH)
LEVEL SHIFT & SHIFT REGISTER

– SUB Board –

IC1005 TC74HC595AF (EL)

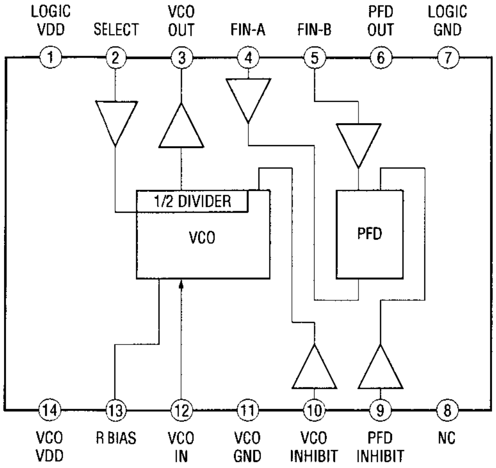

PARALLEL DATA OUTPUT
SERIAL DATA INPUT
OUTPUT ENABLE
LATCH CLOCK
SHIFT CLOCK
RESET
SERIAL DATA OUTPUT
⑯
⑮
⑭
⑬
⑫
⑪
⑩
⑨
VCC
QA
A
SQH
SHIFT REGISTER
LATCH
QB
QC
QD
QE
QF
QG
QH
①
②
③
④
⑤
⑥
⑦
GND
⑧
PARALLEL DATA OUTPUT

IC1010, 1015 TC9274N-015

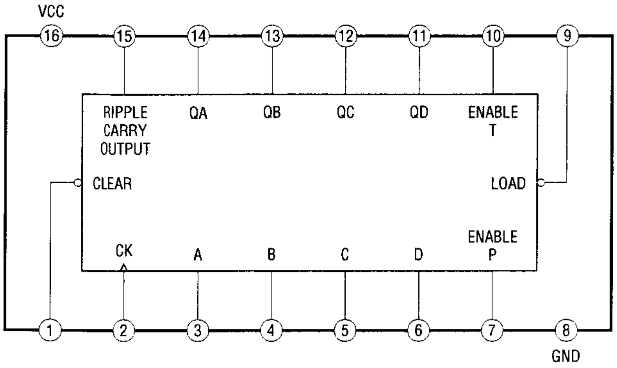

VSS ①
S1 ②
S2 ③
S3 ④
S4 ⑤
S5 ⑥
S6 ⑦
S7 ⑧
S8 ⑨
S9 ⑩
S10 ⑪
S11 ⑫
S12 ⑬
S13 ⑭
S14 ⑮
S15 ⑯
S16 ⑰
S17 ⑱
S18 ⑲
GND ⑳
CK ㉑
㊷ VDD
㊵ S1
㊵ S2
㊴ S3
㊳ S4
㊲ S5
㊱ S6
㉟ S7
㉞ S8
㉝ S9
㉜ S10
㉛ S11
㉚ S12
㉙ S13
㉘ S14
㉗ S15
㉖ S16
㉕ S17
㉔ S18
㉓ STB
㉒ DATA
18BIT LATCH CIRCUIT (L-CH)
18BIT LATCH CIRCUIT (R-CH)
LEVEL SHIFT & SHIFT REGISTER

– I. LINK Board –

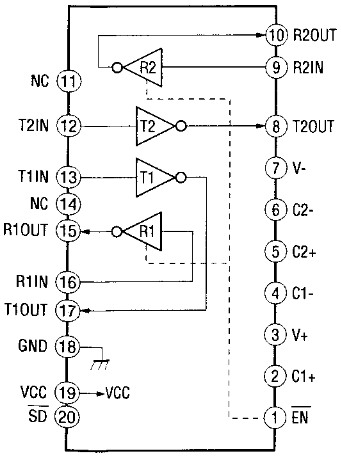
IC3005 TLC2932IPWR


LOGIC VDD ①
SELECT ②
VCO OUT ③
FIN-A ④
FIN-B ⑤
PFD OUT ⑥
LOGIC GND ⑦
1/2 DIVIDER
VCO
PFD
VCO VDD ⑭
R BIAS ⑬
VCO IN ⑫
VCO GND ⑪
VCO INHIBIT ⑩
PFD INHIBIT ⑨
NC ⑧

IC3006, 3009 TC74HC161AF

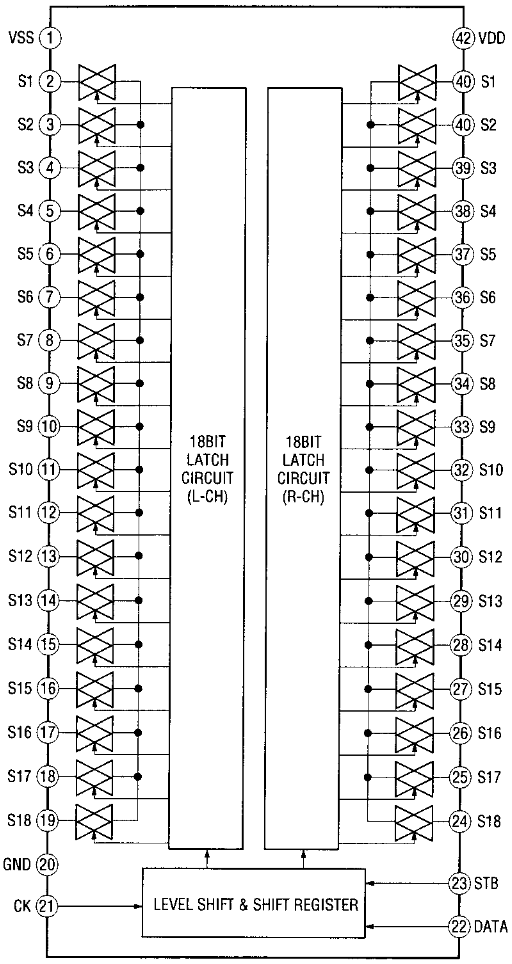

VCC ⑯
⑮
⑭
⑬
⑫
⑪
⑩
⑨
RIPPLE CARRY OUTPUT
QA
QB
QC
QD
ENABLE T
CLEAR
LOAD
CK
A
B
C
D
ENABLE P
①
②
③
④
⑤
⑥
⑦
⑧ GND

IC3501 ADM3222ARU-REEL


⑩ R2OUT
⑨ R2IN
R2
NC ⑪
T2IN ⑫
T2
⑧ T2OUT
T1IN ⑬
T1
⑦ V-
NC ⑭
⑥ C2-
R1OUT ⑮
R1
⑤ C2+
R1IN ⑯
④ C1-
T1OUT ⑰
GND ⑱
③ V+
② C1+
VCC ⑲ VCC
SD ⑳
① EN

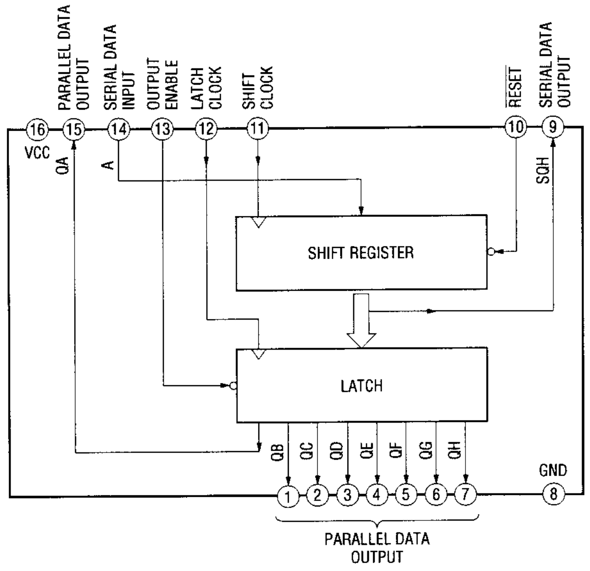
– PREOUT Board –

IC1205 TC9274N-016

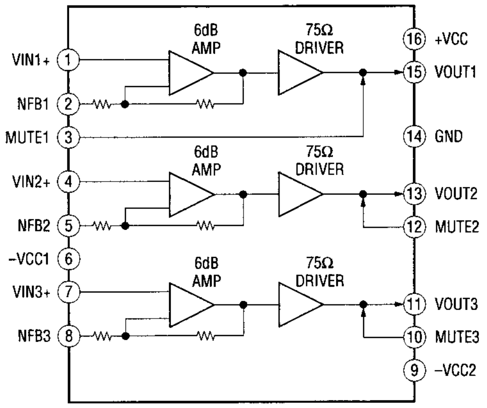

VSS ①
S1 ②
S2 ③
S3 ④
S4 ⑤
S5 ⑥
S6 ⑦
S7 ⑧
S8 ⑨
S9 ⑩
S10 ⑪
S11 ⑫
S12 ⑬
S13 ⑭
S14 ⑮
S15 ⑯
S16 ⑰
S17 ⑱
S18 ⑲
GND ⑳
CK (21)
18BIT LATCH CIRCUIT (L-CH)
18BIT LATCH CIRCUIT (R-CH)
LEVEL SHIFT & SHIFT REGISTER
(42) VDD
(40) S1
(40) S2
(39) S3
(38) S4
(37) S5
(36) S6
(35) S7
(34) S8
(33) S9
(32) S10
(31) S11
(30) S12
(29) S13
(28) S14
(27) S15
(26) S16
(25) S17
(24) S18
(23) STB
(22) DATA

– VIDEO Board –

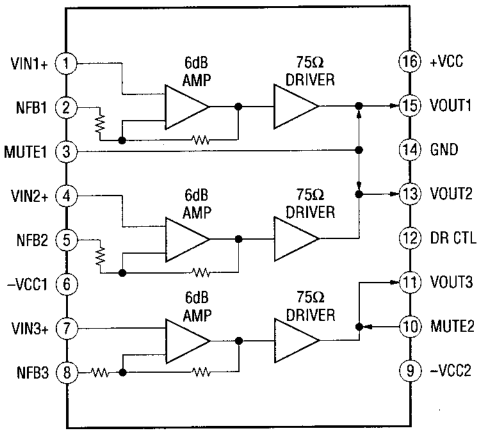
IC302, 303 TC74HC595AF (EL)


PARALLEL DATA OUTPUT
SERIAL DATA INPUT
OUTPUT ENABLE
LATCH CLOCK
SHIFT CLOCK
RESET
SERIAL DATA OUTPUT
16
15
14
13
12
11
10
9
VCC
QA
A
SQH
SHIFT REGISTER
LATCH
QB
QC
QD
QE
QF
QG
QH
1
2
3
4
5
6
7
GND
8
PARALLEL DATA OUTPUT

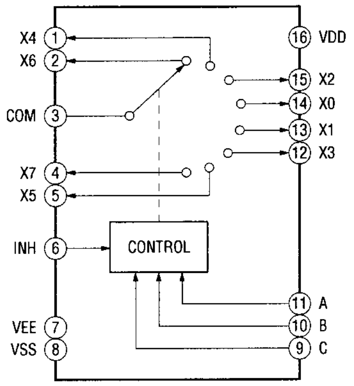
IC304 LA7108M-TLM


VIN1+ 1
NFB1 2
MUTE1 3
VIN2+ 4
NFB2 5
-VCC1 6
VIN3+ 7
NFB3 8
6dB AMP
75Ω DRIVER
16 +VCC
15 VOUT1
14 GND
13 VOUT2
12 MUTE2
11 VOUT3
10 MUTE3
9 -VCC2

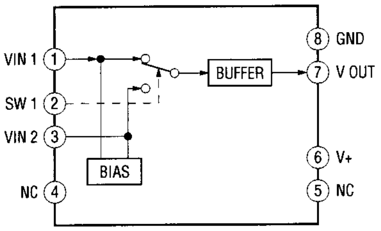
IC305 LA7106M-TLM


VIN1+ 1
NFB1 2
MUTE1 3
VIN2+ 4
NFB2 5
-VCC1 6
VIN3+ 7
NFB3 8
6dB AMP
75Ω DRIVER
16 +VCC
15 VOUT1
14 GND
13 VOUT2
12 DR CTL
11 VOUT3
10 MUTE2
9 -VCC2

IC306, 307 MC14051BF

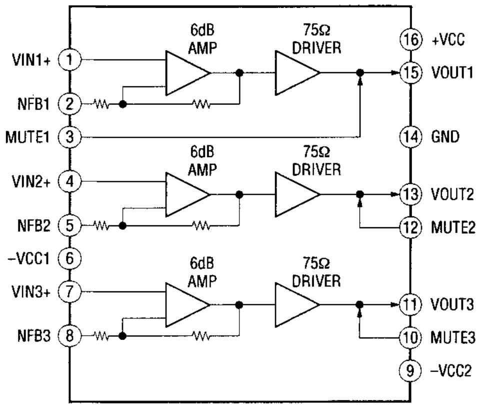

X4 1
X6 2
COM 3
X7 4
X5 5
INH 6
VEE 7
VSS 8
CONTROL
16 VDD
15 X2
14 X0
13 X1
12 X3
11 A
10 B
9 C

IC308 NJM2233BM

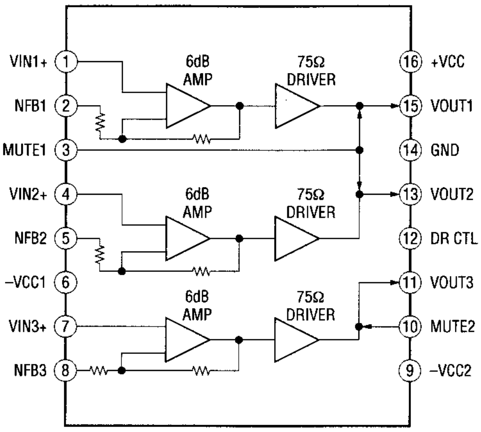

VIN 1 1
SW 1 2
VIN 2 3
NC 4
BIAS
BUFFER
8 GND
7 V OUT
6 V+
5 NC

– S-VIDEO Board –

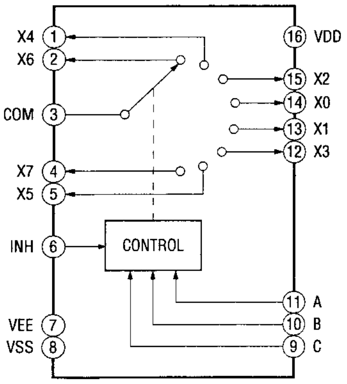
IC401, 402 LA7108M-TLM


VIN1+ 1
NFB1 2
MUTE1 3
VIN2+ 4
NFB2 5
–VCC1 6
VIN3+ 7
NFB3 8
6dB AMP
75Ω DRIVER
16 +VCC
15 VOUT1
14 GND
13 VOUT2
12 MUTE2
11 VOUT3
10 MUTE3
9 –VCC2

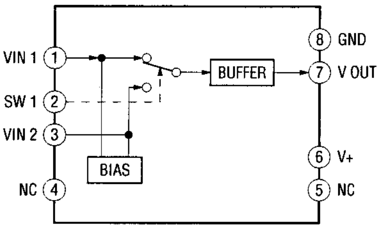
IC403, 404 LA7106M-TLM


VIN1+ 1
NFB1 2
MUTE1 3
VIN2+ 4
NFB2 5
–VCC1 6
VIN3+ 7
NFB3 8
6dB AMP
75Ω DRIVER
16 +VCC
15 VOUT1
14 GND
13 VOUT2
12 DR CTL
11 VOUT3
10 MUTE2
9 –VCC2

IC406 – 410 MC14051BF

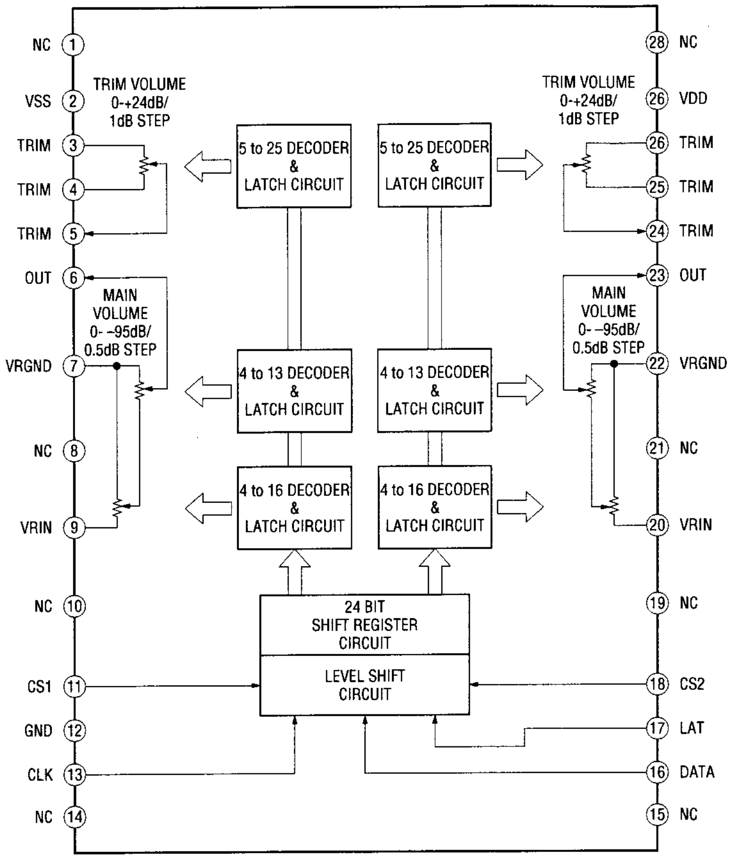

X4 1
X6 2
COM 3
X7 4
X5 5
INH 6
VEE 7
VSS 8
CONTROL
16 VDD
15 X2
14 X0
13 X1
12 X3
11 A
10 B
9 C

IC411, 412 NJM2233BM

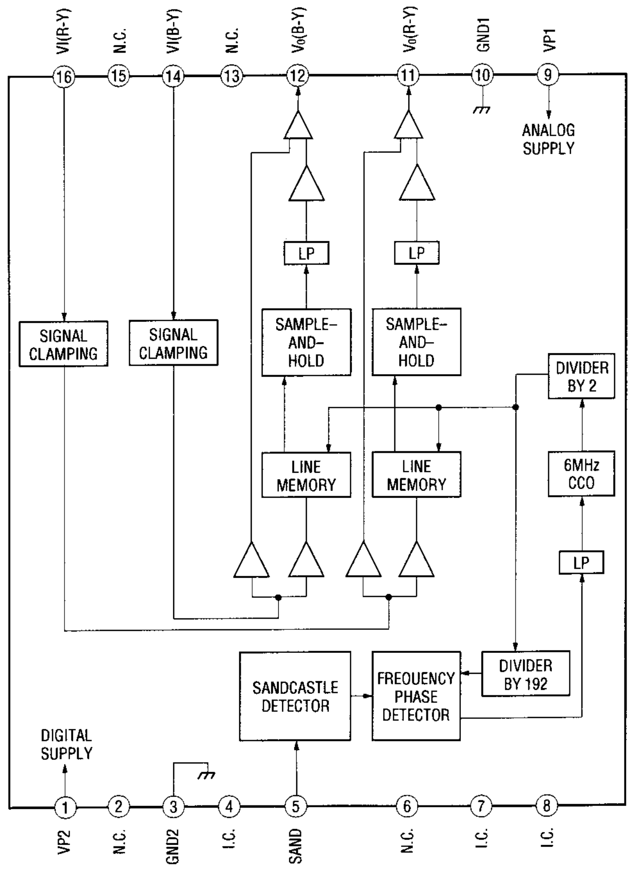

VIN 1 1
SW 1 2
VIN 2 3
NC 4
BUFFER
BIAS
8 GND
7 V OUT
6 V+
5 NC

– COMPONENT Board –

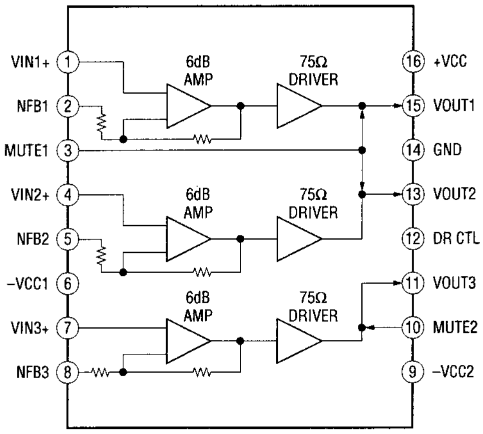
IC1302, 1305, 1307, 1313 CXD9725M


NC 1
VSS 2
TRIM 3
TRIM 4
TRIM 5
OUT 6
VRGND 7
NC 8
VRIN 9
NC 10
CS1 11
GND 12
CLK 13
NC 14
NC 15
DATA 16
LAT 17
CS2 18
NC 19
VRIN 20
NC 21
VRGND 22
OUT 23
TRIM 24
TRIM 25
TRIM 26
VDD 26
NC 28
TRIM VOLUME
0-+24dB/
1dB STEP
TRIM VOLUME
0-+24dB/
1dB STEP
5 to 25 DECODER
&
LATCH CIRCUIT
5 to 25 DECODER
&
LATCH CIRCUIT
MAIN
VOLUME
0- –95dB/
0.5dB STEP
MAIN
VOLUME
0- –95dB/
0.5dB STEP
4 to 13 DECODER
&
LATCH CIRCUIT
4 to 13 DECODER
&
LATCH CIRCUIT
4 to 16 DECODER
&
LATCH CIRCUIT
4 to 16 DECODER
&
LATCH CIRCUIT
24 BIT
SHIFT REGISTER
CIRCUIT
LEVEL SHIFT
CIRCUIT

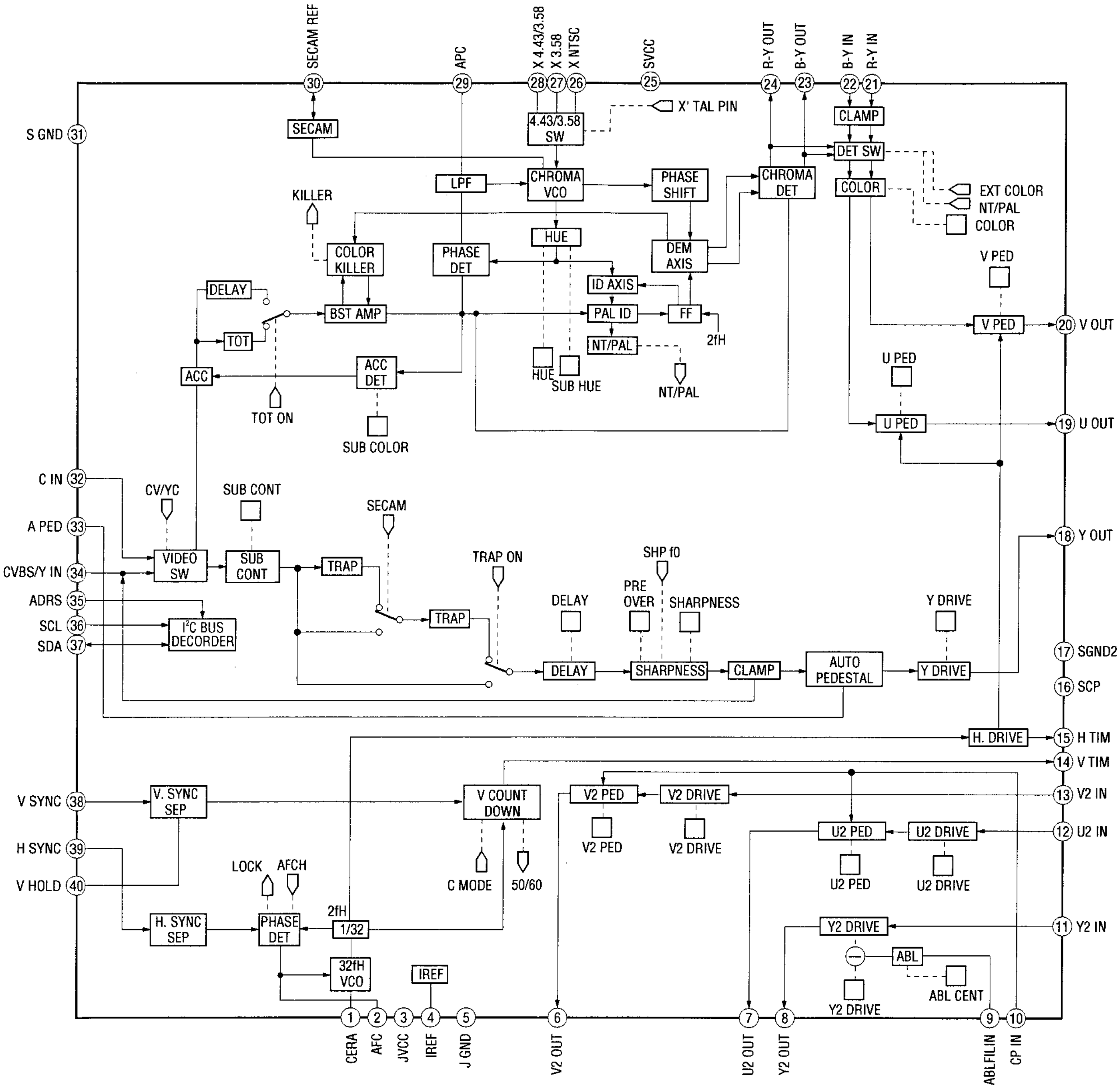
IC1318 TDA4665T/V5-118


VI(R-Y) 16
N.C. 15
VI(B-Y) 14
N.C. 13
V0(B-Y) 12
V0(R-Y) 11
GND1 10
VP1 9
ANALOG
SUPPLY
SIGNAL
CLAMPING
SIGNAL
CLAMPING
LP
LP
SAMPLE-
AND-
HOLD
SAMPLE-
AND-
HOLD
DIVIDER
BY 2
LINE
MEMORY
LINE
MEMORY
6MHz
CCO
LP
SANDCASTLE
DETECTOR
FREQUENCY
PHASE
DETECTOR
DIVIDER
BY 192
DIGITAL
SUPPLY
VP2 1
N.C. 2
GND2 3
I.C. 4
SAND 5
N.C. 6
I.C. 7
I.C. 8

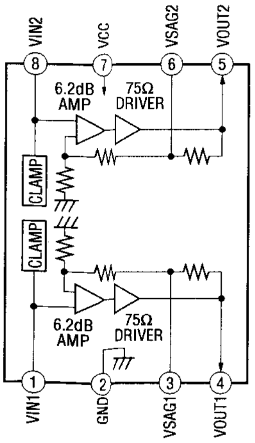
IC1319 LA7106M-TLM


VIN1+ 1
NFB1 2
MUTE1 3
VIN2+ 4
NFB2 5
-VCC1 6
VIN3+ 7
NFB3 8
6dB
AMP
75Ω
DRIVER
6dB
AMP
75Ω
DRIVER
6dB
AMP
75Ω
DRIVER
16 +VCC
15 VOUT1
14 GND
13 VOUT2
12 DR CTL
11 VOUT3
10 MUTE2
9 -VCC2

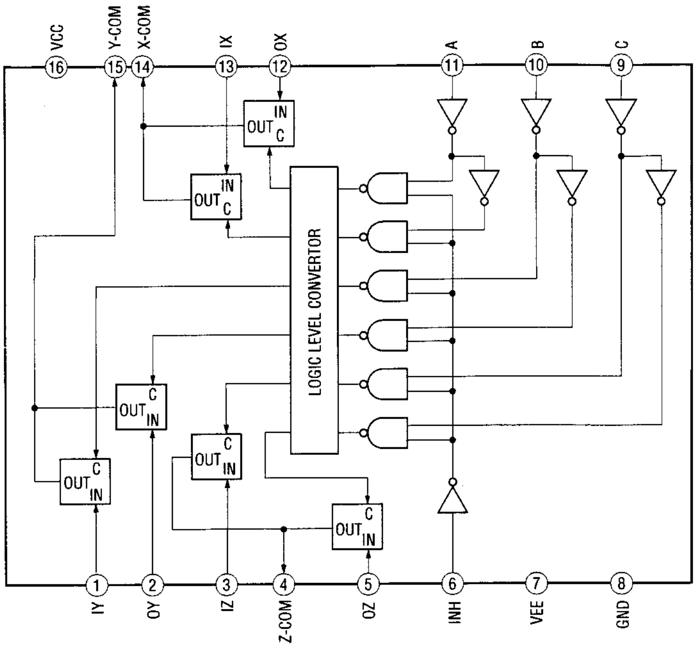
IC1320 CXA2199Q


SECAM REF
APC
X 4.43/3.58
X 3.58
X NTSC
SVCC
R-Y OUT
B-Y OUT
B-Y IN
R-Y IN
S GND
SECAM
4.43/3.58 SW
X' TAL PIN
CLAMP
DET SW
EXT COLOR
NT/PAL
COLOR
LPF
CHROMA VCO
PHASE SHIFT
CHROMA DET
KILLER
COLOR KILLER
PHASE DET
HUE
DEM AXIS
ID AXIS
DELAY
BST AMP
PAL ID
FF
2fH
TOT
NT/PAL
ACC
ACC DET
HUE
SUB HUE
NT/PAL
TOT ON
SUB COLOR
V PED
V OUT
U PED
U OUT
C IN
A PED
CVBS/Y IN
ADRS
SCL
SDA
CV/YC
SUB CONT
VIDEO SW
SUB CONT
SECAM
TRAP
TRAP ON
SHP f0
PRE OVER
SHARPNESS
DELAY
Y DRIVE
Y OUT
I²C BUS DECORDER
TRAP
DELAY
SHARPNESS
CLAMP
AUTO PEDESTAL
Y DRIVE
SGND2
SCP
H. DRIVE
H TIM
V TIM
V SYNC
V. SYNC SEP
V COUNT DOWN
V2 PED
V2 DRIVE
V2 IN
V2 PED
V2 DRIVE
U2 PED
U2 DRIVE
U2 IN
H SYNC
V HOLD
LOCK
AFCH
C MODE
50/60
U2 PED
U2 DRIVE
H. SYNC SEP
PHASE DET
2fH
1/32
Y2 DRIVE
Y2 IN
ABL
32fH VCO
IREF
Y2 DRIVE
ABL CENT
CERA
AFC
JVCC
IREF
J GND
V2 OUT
U2 OUT
Y2 OUT
ABLFILIN
CP IN

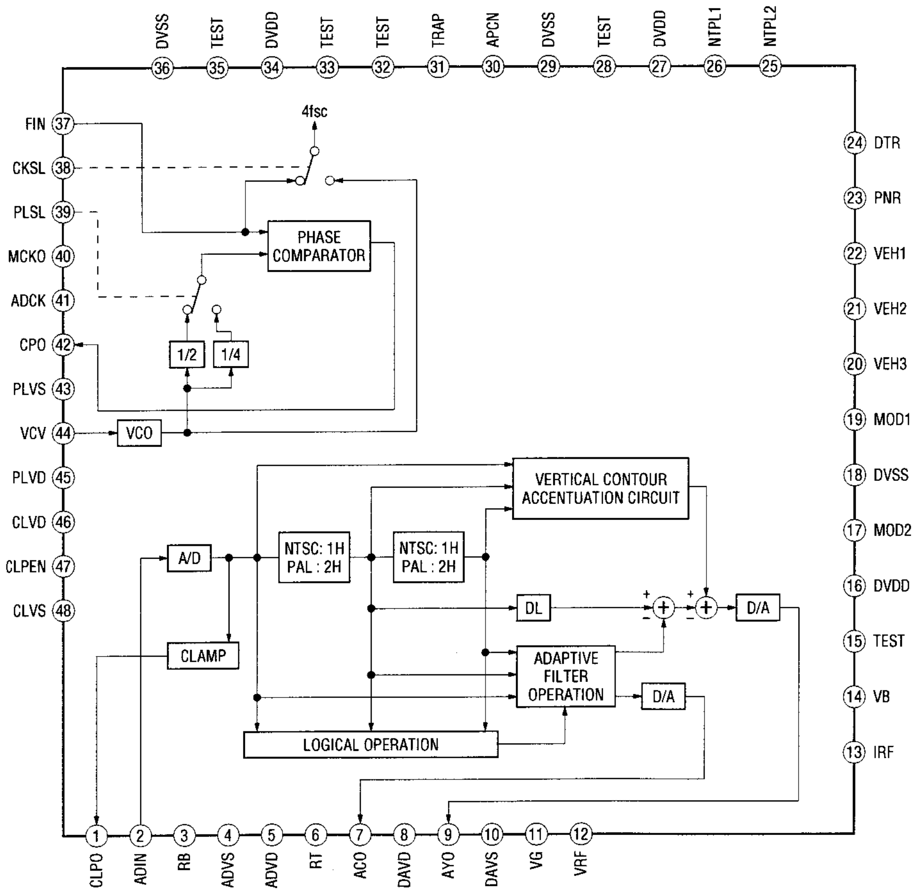
IC1321 NJM2267M (TE2)


VIN2
VCC
VSAG2
VOUT2
6.2dB AMP
75Ω DRIVER
CLAMP
CLAMP
6.2dB AMP
75Ω DRIVER
VIN1
GND
VSAG1
VOUT1

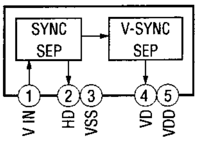
IC1322, 1324, 1327 TC74HC4053AFEL


VCC
Y-COM
X-COM
IX
OX
A
B
C
16
15
14
13
12
11
10
9
IN
OUT
C
LOGIC LEVEL CONVERTOR
OUT
C
IN
1
2
3
4
5
6
7
8
IY
OY
IZ
Z-COM
OZ
INH
VEE
GND

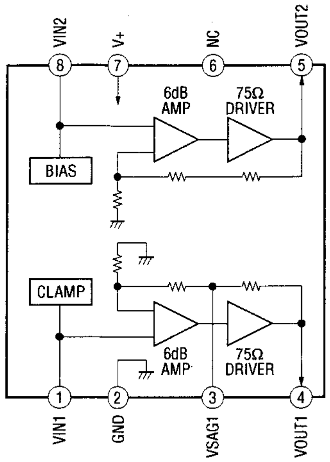
IC1323 CXD2064Q


DVSS
TEST
DVDD
TEST
TEST
TRAP
APCN
DVSS
TEST
DVDD
NTPL1
NTPL2
36
35
34
33
32
31
30
29
28
27
26
25
FIN 37
CKSL 38
PLSL 39
MCKO 40
ADCK 41
CPO 42
PLVS 43
VCV 44
PLVD 45
CLVD 46
CLPEN 47
CLVS 48
4fsc
PHASE COMPARATOR
1/2
1/4
VCO
VERTICAL CONTOUR ACCENTUATION CIRCUIT
A/D
NTSC: 1H PAL : 2H
NTSC: 1H PAL : 2H
DL
+
-
D/A
CLAMP
ADAPTIVE FILTER OPERATION
D/A
LOGICAL OPERATION
24 DTR
23 PNR
22 VEH1
21 VEH2
20 VEH3
19 MOD1
18 DVSS
17 MOD2
16 DVDD
15 TEST
14 VB
13 IRF
1
2
3
4
5
6
7
8
9
10
11
12
CLPO
ADIN
RB
ADVS
ADVD
RT
ACO
DAVD
AYO
DAVS
VG
VRF

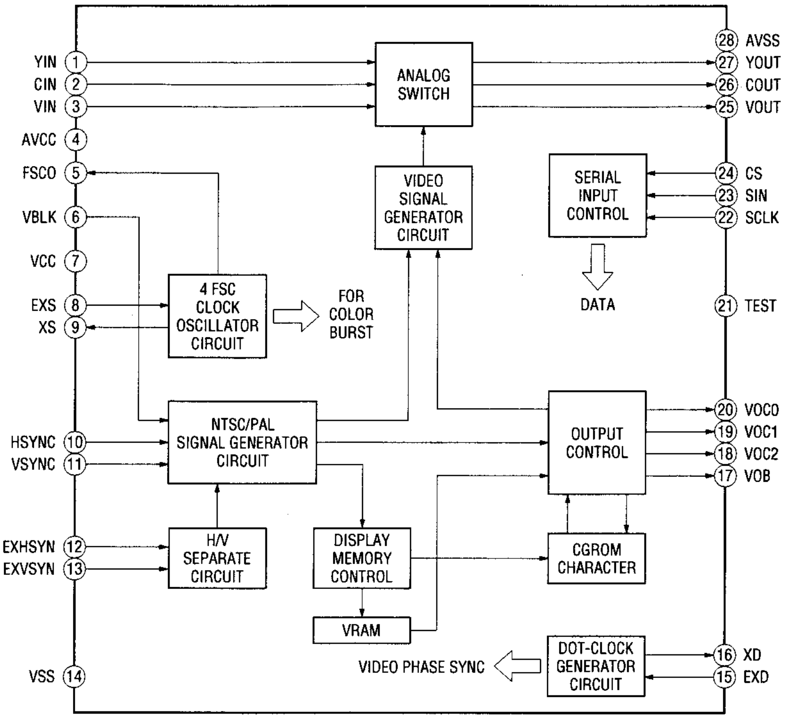
IC1325, 1328 LA7213


SYNC SEP
V-SYNC SEP
1
2
3
4
5
V IN
HD
VSS
VD
VDD

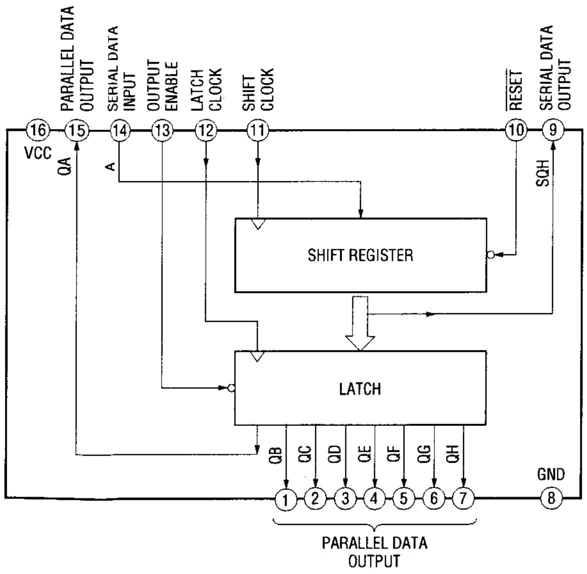
IC1326 NJM2268M


VIN2
V+
NC
VOUT2
8
7
6
5
6dB AMP
75Ω DRIVER
BIAS
CLAMP
6dB AMP
75Ω DRIVER
1
2
3
4
VIN1
GND
VSAG1
VOUT1

IC1329 MB90089F-G-238-BND

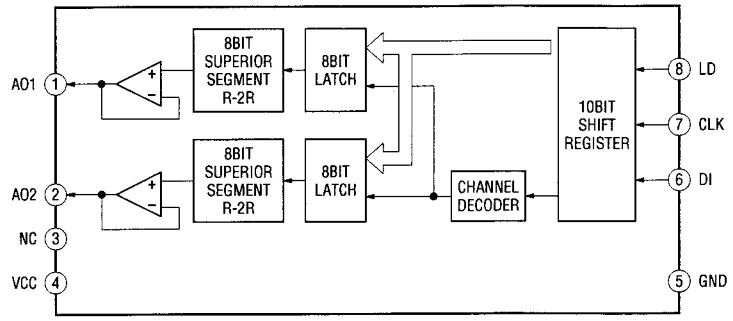

YIN 1
CIN 2
VIN 3
AVCC 4
FSCO 5
VBLK 6
VCC 7
EXS 8
XS 9
HSYNC 10
VSYNC 11
EXHSYN 12
EXVSYN 13
VSS 14
ANALOG SWITCH
VIDEO SIGNAL GENERATOR CIRCUIT
SERIAL INPUT CONTROL
DATA
4 FSC CLOCK OSCILLATOR CIRCUIT
FOR COLOR BURST
NTSC/PAL SIGNAL GENERATOR CIRCUIT
OUTPUT CONTROL
H/V SEPARATE CIRCUIT
DISPLAY MEMORY CONTROL
CGROM CHARACTER
VRAM
DOT-CLOCK GENERATOR CIRCUIT
VIDEO PHASE SYNC
28 AVSS
27 YOUT
26 COUT
25 VOUT
24 CS
23 SIN
22 SCLK
21 TEST
20 VOCO
19 VOC1
18 VOC2
17 VOB
16 XD
15 EXD

IC1330, 1332 TC74HC595AF (EL)


PARALLEL DATA OUTPUT
SERIAL DATA INPUT
OUTPUT ENABLE
LATCH CLOCK
SHIFT CLOCK
RESET
SERIAL DATA OUTPUT
16
15
14
13
12
11
10
9
VCC
QA
A
SQH
SHIFT REGISTER
LATCH
QB
QC
QD
QE
QF
QG
QH
GND
1
2
3
4
5
6
7
8
PARALLEL DATA OUTPUT

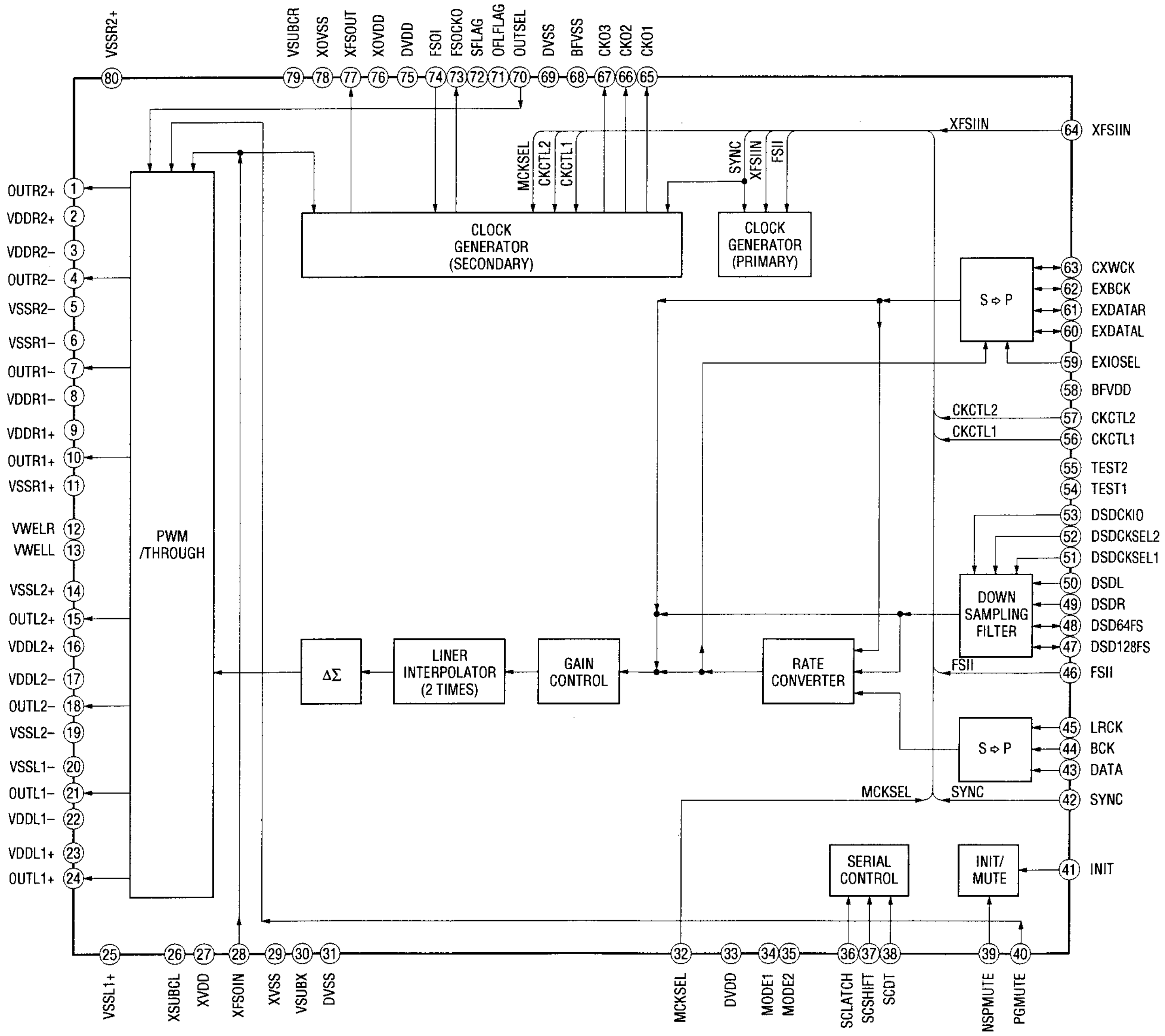
– MOTHER Board –

IC819 M62342FP


A01 ①
A02 ②
NC ③
VCC ④
⑤ GND
⑥ DI
⑦ CLK
⑧ LD
8BIT SUPERIOR SEGMENT R-2R
8BIT SUPERIOR SEGMENT R-2R
8BIT LATCH
8BIT LATCH
10BIT SHIFT REGISTER
CHANNEL DECODER
+
−

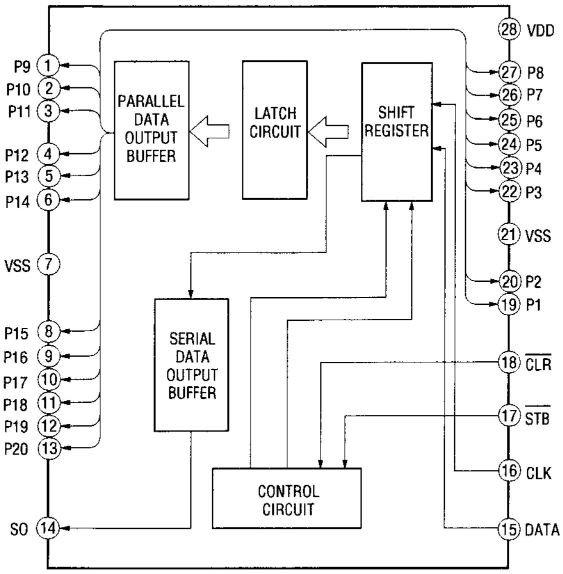
– AMP Board –

IC1504, 1505, 1516, 1517 CXD9730Q


VSSR2+ ⑳80
VSUBCR 79
XOVSS 78
XFSOUT 77
XOVDD 76
DVDD 75
FS01 74
FSOCKO 73
SFLAG 72
OFLFLAG 71
OUTSEL 70
DVSS 69
BFVSS 68
CK03 67
CK02 66
CK01 65
OUTR2+ ①
VDDR2+ ②
VDDR2− ③
OUTR2− ④
VSSR2− ⑤
VSSR1− ⑥
OUTR1− ⑦
VDDR1− ⑧
VDDR1+ ⑨
OUTR1+ ⑩
VSSR1+ ⑪
VWELR ⑫
VWELL ⑬
VSSL2+ ⑭
OUTL2+ ⑮
VDDL2+ ⑯
VDDL2− ⑰
OUTL2− ⑱
VSSL2− ⑲
VSSL1− ⑳
OUTL1− 21
VDDL1− 22
VDDL1+ 23
OUTL1+ 24
VSSL1+ 25
XSUBCL 26
XVDD 27
XFSOIN 28
XVSS 29
VSUBX 30
DVSS 31
MCKSEL 32
DVDD 33
MODE1 34
MODE2 35
SCLATCH 36
SCSHIFT 37
SCDT 38
NSPMUTE 39
PGMUTE 40
INIT 41
SYNC 42
DATA 43
BCK 44
LRCK 45
FSII 46
DSD128FS 47
DSD64FS 48
DSDR 49
DSDL 50
DSDCKSEL1 51
DSDCKSEL2 52
DSDCKIO 53
TEST1 54
TEST2 55
CKCTL1 56
CKCTL2 57
BFVDD 58
EXIOSEL 59
EXDATAL 60
EXDATAR 61
EXBCK 62
CXWCK 63
XFSIIN 64
XFSIIN
MCKSEL
CKCTL2
CKCTL1
SYNC
XFSIIN
FSII
CLOCK GENERATOR (SECONDARY)
CLOCK GENERATOR (PRIMARY)
S ⇔ P
CKCTL2
CKCTL1
PWM /THROUGH
DOWN SAMPLING FILTER
FSII
ΔΣ
LINER INTERPOLATOR (2 TIMES)
GAIN CONTROL
RATE CONVERTER
S ⇔ P
MCKSEL
SYNC
SERIAL CONTROL
INIT/ MUTE

– DISP Board –

IC702, 703 NJU3718G (TE2)


PARALLEL DATA OUTPUT BUFFER
LATCH CIRCUIT
SHIFT REGISTER
SERIAL DATA OUTPUT BUFFER
CONTROL CIRCUIT
P9 1
P10 2
P11 3
P12 4
P13 5
P14 6
VSS 7
P15 8
P16 9
P17 10
P18 11
P19 12
P20 13
SO 14
28 VDD
27 P8
26 P7
25 P6
24 P5
23 P4
22 P3
21 VSS
20 P2
19 P1
18 $\overline{CLR}$
17 $\overline{STB}$
16 CLK
15 DATA

6-86. IC PIN FUNCTION DESCRIPTION

• DIGITAL BOARD IC2201 CXD9718Q (DSP1)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	XRST	I	System reset signal input from the main system controller "L": reset
3	EXTIN	I	Master clock signal input terminal Not used
4	FS2	I	Sampling frequency selection signal input terminal Not used
5	VDDI	—	Power supply terminal (+2.6V)
6	FS1	I	Sampling frequency selection signal input terminal Not used
7	PLOCK	O	Internal PLL lock signal output terminal Not used
8	VSS	—	Ground terminal
9	MCLK1	I	System clock input terminal (13.5 MHz)
10	VDDI	—	Power supply terminal (+2.6V)
11	VSS	—	Ground terminal
12	MCLK2	O	System clock output terminal (13.5 MHz)
13	MS	I	Master/slave setting terminal "L": internal clock, "H": external clock Fixed at "L" in this set
14	SCKOUT	O	Internal system clock output terminal Not used
15	LRCKI1	I	L/R sampling clock signal (44.1 kHz) input from the digital audio interface receiver, decimation filter and i-link interface
16	VDDE	—	Power supply terminal (+3.3V)
17	BCKI1	I	Bit clock signal (2.8224 MHz) input from the digital audio interface receiver, decimation filter and i-link interface
18	SDI1	I	Audio serial data input from the A/D converter and decimation filter
19	LRCKO	O	L/R sampling clock signal (44.1 kHz) output to the DSP2
20	BCKO	O	Bit clock signal (2.8224 MHz) output to the DSP2
21	VSS	—	Ground terminal
22	KFSIO	I	Audio clock signal input terminal
23 to 26	SDO1 to SDO4	O	Audio serial data output to the DSP2
27	SPDIF	O	SPDIF signal output terminal Not used
28	LRCKI2	I	L/R sampling clock signal (44.1 kHz) input from the digital audio interface receiver, decimation filter and i-link interface
29	BCKI2	I	Bit clock signal (2.8224 MHz) input from the digital audio interface receiver, decimation filter and i-link interface
30	SDI2	I	Audio serial data input from the digital audio interface receiver, decimation filter and i-link interface
31	VSS	—	Ground terminal
32	HACN	O	Acknowledge signal output to the main system controller
33	HDIN	I	Serial data input from the main system controller
34	HCLK	I	Serial data transfer clock signal input from the main system controller
35	HDOUT	O	Serial data output to the main system controller
36	HCS	I	Chip select input from the main system controller
37	SDCLK	I	Write signal input terminal Not used
38	CLKEN	O	SD-RAM chip enable output terminal Not used
39	RAS	O	Row address strobe signal output terminal Not used
40	VDDI	—	Power supply terminal (+2.6V)
41	VSS	—	Ground terminal
42	CAS	O	Column address strobe signal output terminal Not used
43	DQM/OE0	O	Output terminal of data input/output mask Not used

Pin No.	Pin Name	I/O	Description
44	CS0	O	Chip select signal output to the S-RAM
45	WE0	O	Write enable signal output to the S-RAM
46	VDDE	—	Power supply terminal (+3.3V)
47	WMD1	I	External memory wait mode setting terminal Fixed at "H" in this set
48	VSS	—	Ground terminal
49	WMD0	I	External memory wait mode setting terminal Fixed at "H" in this set
50	PAGE2	O	External memory page selection signal output terminal Not used
51	VSS	—	Ground terminal
52, 53	PAGE1, PAGE0	O	External memory page selection signal output terminal Not used
54	BOOT	I	Boot mode control signal input terminal Not used
55	BTACT	O	Boot mode state display signal output terminal Not used
56	BST	I	Boot strap signal input from the main system controller
57	MOD1	I	Operation mode setting terminal "L": enhanced mode, "H": normal mode Fixed at "H" in this set
58	MOD0	I	Operation mode setting terminal "L": single chip mode, "H": can not use Fixed at "L" in this set
59	EXLOCK	I	PLL lock error signal and data error flag input from the digital audio interface receiver
60	VDDI	—	Power supply terminal (+2.6V)
61	VSS	—	Ground terminal
62, 63	A17, A16	O	Address signal output terminal Not used
64 to 66	A15 to A13	O	Address signal output to the S-RAM
67	GP10	O	Not used
68	GP9	O	Read ready signal output to the main system controller
69	GP8	I	PCM audio data input from the digital audio interface receiver or i-link system controller
70	VDDI	—	Power supply terminal (+2.6V)
71	VSS	—	Ground terminal
72 to 75	D15 to D12	I/O	Two-way data bus with the S-RAM
76	VDDE	—	Power supply terminal (+3.3V)
77 to 80	D11 to D8	I/O	Two-way data bus with the S-RAM
81	VSS	—	Ground terminal
82 to 85	A9, A12 to A10	O	Address signal output to the S-RAM
86	TDO	O	Simplicity emulation data output terminal Not used
87	TMS	I	Simplicity emulation data input start and end terminal Not used
88	XTRST	I	Simplicity emulation non-sync break signal input terminal Not used
89	TCK	I	Simplicity emulation clock signal input terminal Not used
90	TDI	I	Simplicity emulation data input terminal Not used
91	VSS	—	Ground terminal
92 to 97	A8 to A3	O	Address signal output to the S-RAM
98, 99	D7, D6	I/O	Two-way data bus with the S-RAM
100	VDDI	—	Power supply terminal (+2.6V)
101	VSS	—	Ground terminal
102 to 105	D5 to D2	I/O	Two-way data bus with the S-RAM
106	VDDE	—	Power supply terminal (+3.3V)
107, 108	D1, D0	I/O	Two-way data bus with the S-RAM
109, 110	A2, A1	O	Address signal output to the S-RAM
111	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
112	A0	O	Address signal output to the S-RAM
113	PM	I	PLL initialize signal input from the main system controller
114, 115	SDI3, SDI4	I	Audio serial data input from the decimation filter
116	SYNC	I	Sync/non-sync setting terminal "L": sync, "H": non-sync Fixed at "H" in this set
117	TST2	O	Output terminal for the test Not used
118	VSS	—	Ground terminal
119	TST2	O	Output terminal for the test Not used
120	VDDI	—	Power supply terminal (+2.6V)

• DIGITAL BOARD IC2251 CXD9782R (DSP2)

Pin No.	Pin Name	I/O	Description
1	VDDI	—	Power supply terminal (+2.6V)
2	EXTIN	I	Master clock signal input terminal Not used
3, 4	WMD1, WMD0	I	External memory wait mode setting terminal Fixed at "H" in this set
5	MOD1	I	Operation mode setting terminal "L": enhanced mode, "H": normal mode Fixed at "H" in this set
6	MOD0	I	Operation mode setting terminal "L": single chip mode, "H": can not use Fixed at "L" in this set
7	VSS	—	Ground terminal
8	XRST	I	System reset signal input from the main system controller "L": reset
9	VSS	—	Ground terminal
10	SCKOUT	O	Internal serial clock signal output terminal Not used
11	VDDI (PLL)	—	Power supply terminal (+2.6V) (for PLL)
12	SYNC	I	Sync/non-sync setting terminal "L": sync, "H": non-sync Fixed at "H" in this set
13 to 15	PAGE2 to PAGE0	O	External memory page selection signal output terminal Not used
16	PLOCK	O	Internal PLL lock signal output terminal Not used
17	BTACK	O	Boot mode state display signal output terminal Not used
18	VDDE	—	Power supply terminal (+3.3V)
19	VSS	—	Ground terminal
20 to 22	D31 to D29	I/O	Two-way data bus with the S-RAM
23	A17	O	Address signal output terminal Not used
24	VSS	—	Ground terminal
25, 26	SDO3, SDO4	O	Audio serial data output to the DC cut digital filter
27, 28	SDI1, SDI2	I	Audio serial data input from the DSP1
29	LRCKI1	I	L/R sampling clock signal (44.1 kHz) input from the DSP
30	VSS	—	Ground terminal
31, 32	D28, D27	I/O	Two-way data bus with the S-RAM
33	A16	O	Address signal output terminal Not used
34	A15	O	Address signal output to the S-RAM
35	SDI3	I	Audio serial date input from the DSP
36	L2	—	Not used
37	VDDI	—	Power supply terminal (+2.6V)
38	BCKI1	I	Bit clock signal (2.8224 MHz) input from the DSP
39	SDI4	I	Audio serial data input from the DSP
40	MS	I	Master/slave setting terminal "L": internal clock, "H": external clock Fixed at "L" in this set
41, 42	A14, A13	O	Address signal output to the S-RAM
43, 44	D26, D25	I/O	Two-way data bus with the S-RAM
45	VSS	—	Ground terminal
46	BCKI2	I	Bit clock signal (2.8224 MHz) input terminal Not used
47, 48	FS2, FS1	I	Sampling frequency selection signal input terminal Not used
49	SPDIF	I	SPDIF signal input terminal Not used
50	A12	O	Address signal output to the S-RAM
51 to 53	D24 to D22	I/O	Two-way data bus with the S-RAM
54	VDDE	—	Power supply terminal (+3.3V)
55	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
56 to 58	D21 to D19	I/O	Two-way data bus with the S-RAM
59	A11	O	Address signal output to the S-RAM
60, 61	SDO1, SDO2	O	Audio serial data output to the DC cut digital filter
62	KFSIO	I	Audio clock signal input terminal
63	LRCKO	O	L/R sampling clock signal (44.1 kHz) output to the DC cut digital filter
64	BCKO	O	Bit clock signal (2.8224 MHz) output to the DC cut digital filter
65	VDDI	—	Power supply terminal (+2.6V)
66	VSS	—	Ground terminal
67, 68	D18, D17	I/O	Two-way data bus with the S-RAM
69, 70	A10, A9	O	Address signal output to the S-RAM
71	CAS	O	Column address strobe signal output terminal Not used
72	RAS	O	Row address strobe signal output terminal Not used
73	VDDI	—	Power supply terminal (+2.6V)
74	HDIN	I	Serial data input from the main system controller
75	HCLK	I	Serial data transfer clock signal input from the main system controller
76	HCS	I	Chip select signal input from the main system controller
77, 78	A8, A7	O	Address signal output to the S-RAM
79, 80	D16, D15	I/O	Two-way data bus with the S-RAM
81	VSS	—	Ground terminal
82	HDOUT	O	Serial data output to the main system controller
83	HACN	O	Acknowledge signal output to the main system controller
84	CS0	O	Chip select signal output to the S-RAM
85	WE0	O	Write enable signal output to the S-RAM
86	A6	O	Address signal output to the S-RAM
87 to 89	D14 to D12	I/O	Two-way data bus with the S-RAM
90	VDDE	—	Power supply terminal (+3.3V)
91	VSS	—	Ground terminal
92 to 94	D11 to D9	I/O	Two-way data bus with the S-RAM
95	A5	O	Address signal output to the S-RAM
96	VDDI	—	Power supply terminal (+2.6V)
97	TCK	I	Simplicity emulation clock signal input terminal Not used
98	TDI	I	Simplicity emulation data input terminal Not used
99	TDO	O	Simplicity emulation data input terminal Not used
100	TMS	I	Simplicity emulation data input start and end select Not used
101	XTRST	I	Simplicity emulation non-sync break signal input terminal Not used
102	VSS	—	Ground terminal
103, 104	D8, D7	I/O	Two-way data bus with the S-RAM
105, 106	A4, A3	O	Address signal output to the S-RAM
107, 108	GP10, GP9	O	Not used
109	VDDI	—	Power supply terminal (+2.6V)
110	GP8	O	Not used
111	GP7	I	L/R sampling clock signal (44.1 kHz) input terminal
112	GP6	O	Not used
113, 114	A2, A1	O	Address signal output to the S-RAM
115, 116	D6, D5	I/O	Two-way data bus with the S-RAM
117	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
118, 119	GP5, GP4	O	Not used
120	GP3	O	Error signal output to the main system controller
121	NC	—	Not used
122	A0	O	Address signal output to the S-RAM
123 to 125	D4 to D2	I/O	Two-way data bus with the S-RAM
126	VDDE	—	Power supply terminal (+3.3V)
127	VSS	—	Ground terminal
128, 129	D1, D0	I/O	Two-way data bus with the S-RAM
130 to 132	GP2 to GP0	O	Not used
133	SDCLK	O	SD-RAM clock signal output terminal Not used
134	CLKEN	O	SD-RAM chip enable output terminal Not used
135	DQM	O	Output terminal of data input/output mask Not used
136	EXLOCK	I	Lock signal input from the main system controller
137	VDDI	—	Power supply terminal (+2.6V)
138	VSS	—	Ground terminal
139	MCLK2	O	System clock output terminal (13.5 MHz)
140	PM	I	PLL initialize signal input from the main system controller
141	BST	I	Boot strap signal input from the main system controller
142	BOOT	I	Boot mode control signal input terminal Not used
143	TST	I	Not used
144	MCLK1	I	System clock input terminal (13.5 MHz)

• DIGITAL BOARD IC2301 CXD9722TQ (LIP SYNC ADJUST)

Pin No.	Pin Name	I/O	Description
1 to 5	D1 to D5	I/O	Two-way data bus with the SD-RAM
6	VDD	—	Power supply terminal (+3.3V)
7, 8	D6, D7	I/O	Two-way data bus with the SD-RAM
9	VSS	—	Ground terminal
10	WE	O	Write enable signal output to the SD-RAM
11	CAS	O	Column address strobe signal output to the SD-RAM
12	RAS	O	Row address strobe signal output to the SD-RAM
13	CS	O	Chip select signal output to the SD-RAM
14	CLK	O	Clock signal output to the SD-RAM
15	CKE	O	Clock enable signal output to the SD-RAM
16	VDD	—	Power supply terminal (+3.3V)
17 to 22	A11, A10, A0 to A3	O	Address signal output to the SD-RAM
23	VSS	—	Ground terminal
24 to 29	A9 to A4	O	Address signal output to the SD-RAM
30	VSS	—	Ground terminal
31	DRSO	O	Surround R-ch data output terminal Not used
32	DLSO	O	Surround L-ch data output terminal Not used
33	DEXRO	O	Not used
34	DLFEO	O	Sub woofer data output terminal Not used
35	DCO	O	Center data output terminal Not used
36	VDD	—	Power supply terminal (+3.3V)
37	DRO	O	Front R-ch data output terminal Not used
38	DLO	O	Front L-ch data output terminal Not used
39	VSS	—	Ground terminal
40	DMRO	O	Data output terminal for R-ch down mix Not used
41	DMLO	O	Data output terminal for L-ch down mix Not used
42	VSS	—	Ground terminal
43	VDD	—	Power supply terminal (+3.3V)
44	DLDRO	O	Surround back audio data output to the programmable logic device
45	CSWO	O	Center and sub woofer audio data output to the programmable logic device
46	SLSRO	O	Surround audio data output to the programmable logic device
47	FLFRO	O	Front audio data output to the programmable logic device
48	VSS	—	Ground terminal
49	SPDIFO	O	Digital audio data output terminal Not used
50	TEST1	I	Input terminal for the test
51	TRST	I	Reset signal input from terminal Not used
52	TMS	I	Mode selection signal input terminal Not used
53	TCK	I	Clock signal input terminal Not used
54	TDI	I	Serial data signal input terminal Not used
55	TDO	O	Serial data signal output terminal Not used
56	TEST2	I	Input terminal for the test
57	SPDIFI	I	Digital audio data input terminal Not used
58	VSS	—	Ground terminal
59	LRCKI	I	L/R sampling clock signal (44.1 kHz) input from the Dc cut digital filter
60	BCKI	I	Bit clock signal (2.8224 MHz) input from the Dc cut digital filter

Pin No.	Pin Name	I/O	Description
61	VDD	—	Power supply terminal (+3.3V)
62	VSS	—	Ground terminal
63	DLDRI	I	Surround back audio data input from the Dc cut digital filter
64	CSWI	I	Center and sub woofer audio data input from the Dc cut digital filter
65	SLSRI	I	Surround audio data input from the Dc cut digital filter
66	FLFRI	I	Front audio data input from the Dc cut digital filter
67	TEST3	I	Input terminal for the test
68	CLK512	I	Master clock signal input terminal
69	VSS	—	Ground terminal
70	XRST	I	Reset signal input terminal "L": reset
71	VDD	—	Power supply terminal (+3.3V)
72	SCLK	I	Serial clock signal input from the main system controller
73	XCS	I	Chip select signal input from the main system controller
74	SI	I	Serial data input from the main system controller
75	SO	O	Serial data output to the main system controller
76	DEXRI	I	Not used
77	DMLI	I	Data input terminal for L-ch down mix Not used
78	DMRI	I	Data input terminal for R-ch down mix Not used
79	VSS	—	Ground terminal
80	PHAI	I	Clock signal input terminal Not used
81	BCKAI	I	Bit clock signal (2.8224 MHz) input terminal Not used
82	DQM	O	Not used
83	DLI	I	Front L-ch data input terminal Not used
84	DRI	O	Front R-ch data input terminal Not used
85	DCI	O	Center data input terminal Not used
86	DLFEI	O	Sub woofer data input terminal Not used
87	DLSI	O	Surround L-ch data input terminal Not used
88	DRSI	O	Surround R-ch data input terminal Not used
89	VSS	—	Ground terminal
90 to 95	D15 to D10	I/O	Two-way data bus with the SD-RAM
96	VDD	—	Power supply terminal (+3.3V)
97, 98	D9, D8	I/O	Two-way data bus with the SD-RAM
99	GND	—	Ground terminal
100	D0	I/O	Two-way data bus with the SD-RAM

• DIGITAL BOARD IC2426 ISPLSI2032VE-110LTN44-MOD (PROGRAMMABLE LOGIC DEVICE)

Pin No.	Pin Name	I/O	Description
1	EDGE	I	Clock signal input terminal
2	BCKIN	I	Bit clock signal (2.8224 MHz) input terminal
3	BCK2IN	I	Bit clock signal (2.8224 MHz) input terminal
4	I/O	I/O	Not used
5	MCK	I	Audio clock signal input terminal
6	VCC	—	Power supply terminal (+3.3V)
7	BSCAM	I	Boundary scan enable signal input terminal Not used
8	IN 0/TDI	I	Not used
9, 10	I/O	I/O	Not used
11	BCKAOUT	O	Not used
12	MCKOUT	O	System clock signal output to the PCM/PWM processor and D/A converter
13 to 16	DIOUT_8 to DIOUT_5	O	Audio signal output terminal Not used
17	GND	—	Ground terminal
18	IN 1/TDO	I/O	Not used
19 to 22	DIOUT_8 to DIOUT_5	O	Audio serial data output the PCM/PWM processor and D/A converter
23 to 26	I/O	I/O	Not used
27	Y2/TCK	I	Not used
28	VCC	—	Power supply terminal (+3.3V)
29	Y1/RESET	I	Reset signal input terminal Not used
30	TMS	I	Not used
31	DATAEN	I	Not used
32	CLKSEL	I	Clock selection signal input terminal
33	FS	I	Clock signal input terminal
34	I/O	I/O	Not used
35 to 38	DATA_1 to DATA_4	I	Audio serial data input from the lip sync adjust
39	GND	—	Ground terminal
40	GOE0	—	Global output enable signal input terminal Not used
41 to 44	DATA_5 to DATA_8	I	Audio serial data input terminal Not used

• DIGITAL BOARD IC2601 MB91F155-A9ES-X105 (MAIN SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DSP CLK	O	Serial data transfer clock signal output to the DSP1
2	DSP HDIN	O	Serial data output to the DSP1
3	1BST SEL	O	Signal selection signal output terminal "L": boot strap signal, "H": L/R sampling clock signal
4	1XRST	O	System reset signal output to the DSP1 "L": reset
5	1PM	O	PLL initialize signal output to the DSP1
6	1GP9	I	Read ready signal input from the DSP1
7	1BST	O	Boot strap signal output to the DSP1
8	1HCS	O	Chip select signal output to the DSP1
9	VSS	—	Ground terminal
10	1HDOUT	I	Serial data input from the DSP1
11	1HACN	I	Acknowledge signal input from the DSP1
12	2XRST	O	System reset signal output to the DSP2 "L": reset
13	2PM	O	PLL initialize signal output to the DSP2
14	2GP3	I	Error signal input from the DSP2
15	2BST	O	Boot strap signal output to the DSP2
16	2HCS	O	Chip select signal output to the DSP2
17	2HDOUT	I	Serial data input from the DSP2
18	2HACN	I	Acknowledge signal input from the DSP2
19	2EXLOCK	O	Lock signal output to the DSP2
20	DIR-CE	O	Chip enable signal output to the digital audio interface receiver
21	DIR-DO	I	Read data input from the digital audio interface receiver
22	DIR-ERROR	I	PLL lock error signal and data error flag input from the digital audio interface receiver
23	DIR-DATAO	I	Audio serial data input terminal
24	DIR-CKST	I	Clock select transition period input from the digital audio interface receiver
25	9776-INIT	O	Initialize signal output to the Dc cut digital filter
26	VSS	—	Ground terminal
27	VCC	—	Power supply terminal (+3.3V)
28	RF-ERROR	I	RF error signal input terminal Not used
29	TA-XCS	O	Chip select signal output to the lip sync adjust
30	TA-SO	I	Serial data input from the lip sync adjust
31	DA-LAT	O	Serial data latch pulse signal output to the D/A converter
32	DA-OUT	I	Serial data input from the D/A converter
33	D595-OE	O	Output enable signal output to the data decoder
34	D595-LAT1	O	Serial data latch pulse output to the digital input/output controller
35	D595-LAT2	O	Serial data latch pulse output to the data decoder
36	COM1-CLK	O	Serial data transfer clock signal output to the digital audio interface receiver, lip sync adjust, data decoder and D/A converter
37	COM1-DAT	O	Serial data output to the digital audio interface receiver, lip sync adjust, data decoder and D/A converter
38	COM2-DAT	O	Serial data output to the function switch, data decoder, LED driver, electrical volume and tuner unit
39	COM2-CLK	O	Serial data transfer clock signal output to the function switch, data decoder, LED driver, electrical volume and tuner unit
40	RY-595OE	O	Output enable signal output to the data decoder
41	V595/C595-OE	O	Output enable signal output to the data decoder
42	RY595-LAT	O	Serial data latch pulse output to the data decoder

Pin No.	Pin Name	I/O	Description
43	V595-LAT	O	Serial data latch pulse output to the data decoder
44	VSS	—	Ground terminal
45	C595-LAT	O	Serial data latch pulse output to the data decoder
46	FUNCLAT	O	Serial data latch pulse output to the function switch
47	D.MIXLAT	O	Serial data latch pulse output to the function switch
48	VDLLAT	O	Serial data latch pulse output to the electrical volume
49	PRE.D.M.LAT	O	Serial data latch pulse output to the function switch
50	PREOUT VOL-LAT	O	Serial data latch pulse output to the electrical volume
51	A1OUT	O	SIRCS signal output for the CONTROL A1II
52	MD2	I	Model distination signal input from the sub system controller
53	MD1	I	Model distination signal input terminal Not used
54	MD0	I	Model distination signal input from the sub system controller
55	RSTX	I	System reset signal input terminal "L": reset
56	VCC	—	Power supply terminal (+3.3V)
57	X1	O	Main system clock output terminal (16.5 MHz)
58	X0	I	Main system clock input terminal (16.5 MHz)
59	VSS	—	Ground terminal
60	A1IN	I	SIRCS signal input for the CONTROL A1II
61	SIRCS IN	I	SIRCS signal input terminal
62	POWER SW	I	I/⏻ key input terminal
63 to 67	MBUS-STS0 to MBUS-STS4	I	M-BUS status input from the sub system controller
68	VCC	—	Power supply terminal (+3.3V)
69	RST TRG	O	Reset signal output terminal
70	END FLAG	O	End flag output to the sub system controller
71	A1-LAT	O	Serial data latch pulse signal output to the sub system controller
72	ILINK RST	O	System reset signal output to the I-link system controller "L": reset
73, 74	FUNC1, FUNC2	I	Jog dial pulse input from the rotary encoder (for INPUT SELECTOR)
75, 76	POW-RY, POW-RY2	O	Relay drive signal (for main power) output terminal "H": relay on
77	VCC	—	Power supply terminal (+3.3V)
78	STOP	I	AC off detection signal input terminal
79	TUN-LAT	O	Serial data latch pulse signal output to the tuner unit (AEP model only)
80	TUN-TUNED	I	Tuned detection signal input from the tuner unit (AEP model only)
81	TUN-STEREO	I	FM stereo detection signal input from the tuner unit (AEP model only)
82	TUN-DO	I	Serial data input from the tuner unit (AEP model only)
83	SUB-RST	O	System reset signal output to the output controller "L": reset
84	S-MUTE	O	System muting on/off control signal output terminal "H": muting on
85	MIAN-CLK	O	Clock signal output to the output controller
86	SUB-U INFO2	I	Serial data input from the output controller
87	SUB-U INFO1	O	Serial data output to the output controller
88	BBSEL	O	Bass boost filter on/off selection signal output to the DC cut digital filter "L": on
89	FSRATE	I	L/R sampling clock signal (44.1 kHz) input from the digital audio interface receiver, decimation filter and i-link interface
90, 91	VOL JOG1, VOL JOG2	I	Jog dial pulse input from the rotary encoder (for MASTER VOLUME)

Pin No.	Pin Name	I/O	Description
92, 93	BASS JOG1, BASS JOG2	I	Jog dial pulse input from the rotary encoder (for BASS)
94	OSD-LAT	O	Serial data latch pulse signal output to the OSD driver
95	FL-LAT	O	Serial data latch pulse output to the fluorescent indicator tube
96	FL-CLR	O	Clear signal output to the fluorescent indicator tube
97	VCC	—	Power supply terminal (+3.3V)
98	VSS	—	Ground terminal
99	SDA	I/O	Two-way data bus with the i-link system controller
100	SCL	O	Serial data transfer clock signal output to the i-link system controller
101	VSS	—	Ground terminal
102	OSD-CLK	O	Serial data transfer clock signal output to the OSD driver
103	OSD-DAT	O	Serial data output to the OSD driver
104	ERR/AUD-SEL	O	Error signal/audio data selection signal output terminal
105	TREB JOG1	I	Jog dial pulse input from the rotary encoder (for TREBLE)
106	TREB JOG2	I	Jog dial pulse input from the rotary encoder (for TREBLE)
107	UPCOM-DAT	I/O	Two-way data bus with the chroma decoder
108	UPCOM-CLK	O	Serial data transfer clock signal output to the chroma decoder
109	SOT1	O	Serial data output to the RS-232C
110	SIN1	I	Serial data input from the RS-232C
111	FL1-CLK	O	Serial data transfer clock signal output to the fluorescent indicator tube
112	FL1-DATA	O	Serial data output to the fluorescent indicator tube
113	EEPROM SDA	I/O	Two-way data bus with the EEPROM
114	EEPROM SCL	O	Serial data transfer clock signal output to the EEPROM
115	HP IN	I	Headphone detection signal input terminal "H": headphone is connected
116, 117	FSPSW-A, FSPSW-B	I	Front speaker selection switch input terminal
118, 119	MENU JOG1, MENU JOG2	I	Jog dial pulse input from the rotary encoder (for MAIN MENU)
120, 121	PAGE JOG1, PAGE JOG2	I	Jog dial pulse input from the rotary encoder (for MENU)
122	VCC	—	Power supply terminal (+3.3V)
123	LED LAT	O	Serial data latch pulse signal output to the LED driver
124	LED CLR	O	Serial data transfer clock signal output to the LED driver
125	PCM-SEL	O	PCM imitation signal output terminal
126	DAVS (VSS)	—	Ground terminal (for D/A converter)
127	DAVC (VCC)	—	Power supply terminal (+3.3V) (for D/A converter)
128	AVCC (VCC)	—	Power supply terminal (+3.3V) (for A/D converter)
129	AVRH (VCC)	—	Reference voltage (+3.3V) input terminal (for A/D converter)
130	AVRL (VSS)	—	Reference voltage (0V) input terminal (for A/D converter)
131	AVSS (VSS)	—	Ground terminal (for A/D converter)
132 to134	AD1	I	Front panel key input terminal (A/D input)
135	VERSION	I	Destination setting terminal
136, 137	RSPSW-A, RSPSW-B	I	Surround speaker selection switch input terminal
138	+/– JOG1	I	Jog dial pulse input from the rotary encoder (for –/+)
139	+/– JOG2	I	Jog dial pulse input from the rotary encoder (for –/+)
140	VCC2	—	Power supply terminal (+3.3V)

Pin No.	Pin Name	I/O	Description
141	BACUP	—	Power supply terminal (+3.3V) (for back up)
142	X0A	I	Sub system clock input terminal Not used
143	X1A	O	Sub system clock output terminal Not used
144	VSS	—	Ground terminal

• DIGITAL BOARD IC2701 TMP87C447U-1F23 (SUB SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	STAT0	O	M-BUS status output to the main system controller
2	CARRIER-OUT	O	SIRCS signal on/off control signal output terminal
3	FLASH	I	Not used
4	MBUS	I	Not used
5	CTRL-LATCH	I	Serial data latch pulse signal input from the main system controller
6, 7	—	—	Not used
8	SIRSTS	O	Not used
9	—	—	Not used
10	SIRCS-INPUT	I	SIRCS signal input terminal
11	A1-OUT	O	SIRCS signal output for CONTROL A1II
12	A1-IN	I	SIRCS signal input for CONTROL A1II
13	GND	—	Ground terminal
14	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
15	XIN	I	System clock input terminal (7.28 MHz)
16	XOUT	O	System clock output terminal (7.28 MHz)
17	GND	—	Ground terminal
18	VDD	—	Power supply terminal (+5V)
19	RESETC	O	Reset signal output to the main system controller
20	RESETN	O	Not used
21	OUTHI1	O	Not used
22	OUTLO1	O	Not used
23	OUTHI2	O	Model destination signal output to the main system controller
24	OUTLO2	O	Model destination signal output to the main system controller
25	ENDFLG	I	End flag input from the main system controller
26	UARTIN	I	Serial data input from the RS-232C
27 to 32	—	—	Not used
33	SIRCS-OUT	O	SIRCS signal output terminal
34 to 36	—	—	Not used
37	MBUS_TV	I	Not used
38	MBUS_V2	I	Not used
39	MBUS_V1	I	Not used
40	VDD	—	Power supply terminal (+5V)
41 to 44	STAT4 to STAT1	O	M-BUS status output to the main system controller

- **I. LINK BOARD IC3002 M30626FHPFP-DA9000ES (I. LINK SYSTEM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1 to 7	HD6 to HD0	I/O	Two-way data bus with the i. link DSP
8	BYTE	I	External data bus line byte selection signal input terminal "L": 16 bit, "H": 8 bit Fixed at "L" in this set
9	CNVSS	—	Processor mode selection signal input terminal "L": single Fixed at "L" in this set
10	UN-MUTE	O	Muting on/off control signal output terminal
11	NC	O	Not used
12	RESET	I	System reset signal input from the main system controller "L": reset
13	XOUT	O	System clock output terminal (10 MHz)
14	VSS	—	Ground terminal
15	XIN	I	System clock input terminal (10 MHz)
16	VCC	—	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt input terminal Not used
18	MILES AUDIO	O	PCM audio data output to the DSP1
19	AKE_XF	I	External flag signal input from the i. link DSP
20	XHINT	O	Interrupt signal output terminal Not used
21	HRDY	I	Ready signal input from the i. link DSP
22	XHAS	O	Address strobe signal output to the i. link DSP
23, 24	XHDS1, XHDS2	O	Data strobe signal output to the i. link DSP
25	XHCS	O	Chip select signal output to the i. link DSP
26	XRS	O	Reset signal output to the i. link DSP "L": reset
27, 28	NC	O	Not used
29	IIC CLK	I	Serial data transfer clock signal input from the main system controller
30	IIC DATA	I/O	Two-way data bus with the main system controller
31	TXD1	I	Not used
32	RXD1	I	Not used
33	CLK1	I	Not used
34	RTS1	I	Not used
35	ERRCLR	O	Error output clear signal output terminal
36	STR/TA	I	Model setting terminal "L": STR-DA9000ES, "H": TA-DA9000ES
37, 38	NC	O	Not used
39	RDY	I	Ready signal input from the i. link interface
40	ALE	O	Not used
41	HOLD (PULL UP)	I	Not used
42	HLDA	O	Not used
43	BCLK	O	Not used
44	RD	O	Read data output to the EEPROM and i. link interface
45	WRH	O	Not used
46	WR	O	Write data output to the EEPROM and i. link interface
47	NC	O	Not used
48	EEP_CS	O	Chip select signal output to the EEPROM
49	CXD3210 CS	O	Chip select signal output to the i. link interface
50	NC	O	Not used
51, 52	HCNTL0, HCNTL1	O	Control signal output to the i. link DSP
53	HBIL	O	Byte identification signal output to the i. link DSP
54	HRW	O	Read/write signal output to the i. link DSP

Pin No.	Pin Name	I/O	Description
55, 56	NC	O	Not used
57 to 61	A13 to A9	O	Address signal output to the EEPROM
62	VCC	—	Power supply terminal (+3.3V)
63	A8	O	Address signal output to the EEPROM and i. link interface
64	GND	—	Ground terminal
65 to 71	A7 to A1	O	Address signal output to the EEPROM and i. link interface
72	A0	O	Address signal output terminal Not used
73 to 88	D15 to D0	I/O	Two-way data bus with the EEPROM and i. link interface
89	PHY_BIAS	O	Power down signal output to the i. link interface
90	PHY_RST	O	Power reset signal output to the i. link interface "L": reset
91	NC	O	Not used
92	LINK_RST	O	Link reset signal output to the i. link interface "L": reset
93 to 95	NC	O	Not used
96	AVSS	—	Ground terminal (for A/D converter)
97	NC	O	Not used
98	A/D VREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
99	AVCC 3.3V	—	Power supply terminal (+3.3V) (for A/D converter)
100	HD7	I/O	Two-way data bus with the i. link DSP

• I. LINK BOARD IC3012 TMS320VC5409PGE100A (I. LINK DSP)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	A22	O	Address signal output terminal Not used
3	VSS	—	Ground terminal
4	DVDD (3.3V)	—	Power supply terminal (+3.3V)
5	A10	O	Address signal output terminal Not used
6	HD7	I/O	Two-way data bus with the i. link system controller
7 to 11	A11 to A15	O	Address signal output terminal Not used
12	CVDD (1.8V)	—	Power supply terminal (+1.8V)
13	$\overline{\text{HAS}}$	I	Address strobe signal input from the i. link system controller
14, 15	VSS	—	Ground terminal
16	CVDD (1.8V)	—	Power supply terminal (+1.8V)
17	$\overline{\text{HCS}}$	I	Chip select signal input from the i. link system controller
18	HR/$\overline{\text{W}}$	I	Read/write signal input from the i. link system controller
19	READY	I	Ready signal input terminal Not used
20	$\overline{\text{PS}}$	I	Program select signal input terminal Not used
21	$\overline{\text{DS}}$	I	Data select signal input terminal Not used
22	$\overline{\text{IS}}$	I	I/O space select signal input terminal Not used
23	R/$\overline{\text{W}}$	O	Read/write signal output terminal Not used
24	$\overline{\text{MSTRB}}$	O	Memory strobe signal output terminal Not used
25	$\overline{\text{IOSTRB}}$	O	I/O strobe signal output terminal Not used
26	$\overline{\text{MSC}}$	O	Microstate complete signal output terminal Not used
27	XF	O	External flag signal output to the i. link system controller
28	$\overline{\text{HOLDA}}$	O	Hold acknowledge signal output terminal Not used
29	$\overline{\text{IAQ}}$	O	Instruction acquisition signal output terminal Not used
30	$\overline{\text{HOLD}}$	I	Hold signal input terminal Not used
31	$\overline{\text{BIO}}$	I	Branch control signal input terminal Not used
32	MP/$\overline{\text{MC}}$	I	Microprocessor/microcomputer mode selection signal input terminal "L": microcomputer mode, "H": microprocessor mode Fixed at "L" in this set
33	DVDD (3.3V)	—	Power supply terminal (+3.3V)
34	VSS	—	Ground terminal
35	BDR1	I	Serial data input terminal Not used
36	BFSR1	I	Frame sync signal input terminal Not used
37	VSS	—	Ground terminal
38	BCLKR1	I	Receive clock signal input terminal Not used
39	HCNTL0	I	Control signal input from the i. link system controller
40	VSS	—	Ground terminal
41, 42	BCLKR0, BCLKR2	I	Receive clock signal input terminal Not used
43, 44	BFSR0, BFSR2	I	Frame sync signal input terminal Not used
45	BDR0	I	Serial data input terminal Not used
46	HCNTL1	I	Control signal input from the i. link system controller
47	BDR2	I	Serial data input terminal Not used
48, 49	BCLKX0, BCLKX2	I	Transmit clock signal input terminal Not used
50	VSS	—	Ground terminal
51	$\overline{\text{HINT}}$/TOUT1	O	Interrupt signal output to the $\overline{\text{INT2}}$ ((66) pin)
52	CVDD (1.8V)	—	Power supply terminal (+1.8V)

Pin No.	Pin Name	I/O	Description
53, 54	BFSX0, BFSX2	I	Frame sync signal input terminal Not used
55	HRDY	O	Ready signal output to the i. link system controller
56	DVDD (3.3V)	—	Power supply terminal (+3.3V)
57	VSS	—	Ground terminal
58	HD0	I/O	Two-way data bus with the i. link system controller
59, 60	BDX0, BDX2	O	Serial data output terminal Not used
61	IACK	O	Interrupt acknowledge signal output terminal Not used
62	HBIL	I	Byte identification signal input from the i. link system controller
63	$\overline{\text{NMI}}$	I	Non-maskable interrupt input terminal Not used
64, 65	$\overline{\text{INT0}}$, $\overline{\text{INT1}}$	I	Interrupt signal input terminal Not used
66	$\overline{\text{INT2}}$	I	Interrupt signal input from the $\overline{\text{HINT}}$/TOUT1 ((51) pin)
67	$\overline{\text{INT3}}$	I	Interrupt signal input terminal Not used
68	CVDD (1.8V)	—	Power supply terminal (+1.8V)
69	HD1	I/O	Two-way data bus with the i. link system controller
70	VSS	—	Ground terminal
71	BCLKX1	I	Transmit clock signal input terminal Not used
72	VSS	—	Ground terminal
73	BFSX1	I	Frame sync signal input terminal Not used
74	BDX1	O	Serial data output terminal Not used
75	DVDD (3.3V)	—	Power supply terminal (+3.3V)
76	VSS	—	Ground terminal
77 to 79	CLKMD1 to CLKMD3	I	Clock mode selection signal input terminal Not used
80	HPI16	I	HPI 16 bit selection signal input terminal Not used
81	HD2	I/O	Two-way data bus with the i. link system controller
82	TOUT0	O	Timer output terminal Not used
83	EMU0	I	Not used
84	EMU1/$\overline{\text{OFF}}$	I	Not used
85	TDO	O	Not used
86	TDI	I	Not used
87	$\overline{\text{TRST}}$	I	Not used
88	TCK	I	Not used
89	TMS	I	Not used
90	VSS	—	Ground terminal
91	CVDD (1.8V)	—	Power supply terminal (+1.8V)
92	HPIENA	I	HPI module selection signal input terminal Not used
93	VSS	—	Ground terminal
94	CLKOUT	O	Master clock signal output terminal Not used
95	HD3	I/O	Two-way data bus with the i. link system controller
96	X1	O	System clock output terminal (20 MHz)
97	X2/CLKIN	I	System clock input terminal (20 MHz)
98	$\overline{\text{RS}}$	I	Reset signal input from the i. link system controller "L": reset
99 to 104	D0 to D5	I/O	Two-way data bus terminal Not used
105	A16	O	Address signal output terminal Not used
106	VSS	—	Ground terminal
107 to 110	A17 to A20	O	Address signal output terminal Not used

Pin No.	Pin Name	I/O	Description
111	VSS	—	Ground terminal
112	DVDD (3.3V)	—	Power supply terminal (+3.3V)
113 to 119	D6 to D12	I/O	Two-way data bus terminal Not used
120	HD4	I/O	Two-way data bus with the i. link system controller
121 to 123	D13 to D15	I/O	Two-way data bus terminal Not used
124	HD5	I/O	Two-way data bus with the i. link system controller
125	CVDD (1.8V)	—	Power supply terminal (+1.8V)
126	VSS	—	Ground terminal
127	$\overline{\text{HDS1}}$	I	Data strobe signal input from the i. link system controller
128	VSS	—	Ground terminal
129	$\overline{\text{HDS2}}$	I	Data strobe signal input from the i. link system controller
130	DVDD (3.3V)	—	Power supply terminal (+3.3V)
131 to 134	A0 to A3	O	Address signal output terminal Not used
135	HD6	I/O	Two-way data bus with the i. link system controller
136 to 141	A4 to A9	O	Address signal output terminal Not used
142	CVDD (1.8V)	—	Power supply terminal (+1.8V)
143	A21	O	Address signal output terminal Not used
144	VSS	—	Ground terminal

• COMPONENT BOARD IC1329 MB90089F-G-238-BND (OSD DRIVER)

Pin No.	Pin Name	I/O	Description
1	YIN	I	Y (luminance) signal input terminal Not used
2	CIN	I	C (color) signal input terminal Not used
3	VIN	I	Composite video signal input terminal Not used
4	AVCC	—	Power supply terminal (+5V)
5	FSCO	O	Internal color burst phase display signal output terminal Not used
6	VBLK	O	Vertical blanking period signal output terminal Not used
7	VCC	—	Power supply terminal (+5V)
8	EXS	I	Input terminal from the clock generator for external color burst connected to crystal vibrator (14.31818 MHz)
9	XS	O	Output terminal from the clock generator for external color burst connected to crystal vibrator (14.31818 MHz)
10	HSYNC	O	Horizontal sync signal output terminal Not used
11	VSYNC	O	Vertical sync signal output terminal Not used
12	EXHSYN	I	External horizontal sync signal input terminal Not used
13	EXVSYN	I	External vertical sync signal input terminal Not used
14	VSS	—	Ground terminal
15	EXD	I	Dot clock generator connecting terminal for display
16	XD	O	Dot clock generator connecting terminal for display
17	VOB	O	Character and background period signal output terminal Not used
18 to 20	VOC2 to VOC0	O	Color signal output terminal Not used
21	TEST	I	Setting terminal for the test "L": test (normally: fixed at "H")
22	SCLK	I	Serial data transfer clock signal input from the main system controller
23	SIN	I	Serial data input from the main system controller
24	CS	I	Serial data latch pulse signal input from the main system controller
25	VOUT	O	Composite video signal output terminal
26	COUT	O	C (color) signal output terminal
27	YOUT	O	Y (luminance) signal output terminal
28	AVSS	—	Ground terminal

• AMP BOARD IC1800 MB89537APFM-G-461-BNDE1 (OUTPUT CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	4/8 IN	I	Current detection signal input from the protect circuit
2	MOD2	I	Not used
3	TEMP	I	Temperature detection signal input from the thermistor
4 to 10	—	—	Not used
11	AVCC	—	Power supply terminal (+3.3V)
12	AVR	I	Reference voltage (+3.3V) input terminal
13	AVSS	—	Ground terminal
14	U-MAIN	I	Clock signal input from main system controller
15	AC-OFF	I	AC off detection signal input terminal “L”: AC off
16 to 18	—	—	Not used
19	RST	I	System reset signal input from the main system controller “L”: reset
20, 21	MOD0, MOD1	I	Setting terminal for memory access mode Normally: fixed at “L”
22	X0	I	System clock input terminal (8 MHz)
23	X1	O	System clock output terminal (8 MHz)
24	VSS	—	Ground terminal
25	VOL-CLK	O	Serial data transfer clock signal output to the data decoder
26	VOL-DATA	O	Serial data output to the data decoder
27	VOL-LAT	O	Serial data latch pulse signal output to the data decoder
28	DAC-MUTE	O	Muting on/off control signal output terminal “H”: muting on
29, 30	(P23), (P22)	—	Not used
31	4I-LIMIT	I	IMPEDANCE SELECTOR switch input terminal “L”: 4Ω, “H”: 8Ω
32	DC	I	DC off detection signal input terminal
33	I LIMIT	I	Current detection signal input terminal Not used
34	4/8OUT	O	Relay drive signal (for speaker impedance 4Ω/8Ω selection) output terminal
35	DIAG	I	Temperature detection signal input from the power amplifier
36	EN	O	Enable signal output terminal
37	MODE1	O	PCM/DSD data selection signal output terminal Not used
38	INIT	O	Initialize signal output to the PCM/PWM processor
39	NSP-MUTE	O	Muting on/off control signal output terminal Not used
40	(P10)	—	Not used
41	—	—	Not used
42	U-SUB1	I	Serial data input from main system controller
43	LAT4	O	Serial data latch pulse signal (for surround back) output to the PCM/PWM processor
44	LAT3	O	Serial data latch pulse signal (for surround) output to the PCM/PWM processor
45	LAT2	O	Serial data latch pulse signal (for center) output to the PCM/PWM processor
46	LAT1	O	Serial data latch pulse signal (for front) output to the PCM/PWM processor
47	F-B RY	O	Relay drive signal (for front speaker B) output terminal
48	SR-A RY	O	Relay drive signal (for surround speaker A) output terminal
49	NC	—	Not used
50	F-A RY	O	Relay drive signal (for front speaker A) output terminal
51	SHIFT	O	Serial data transfer clock signal output to the PCM/PWM processor
52	SO1/SCDT	O	Serial data output to the PCM/PWM processor
53	SI1/SR-B RY	O	Relay drive signal (for surround speaker B) output terminal
54	C RY	O	Relay drive signal (for center speaker) output terminal
55	SB RY	O	Relay drive signal (for surround back speaker) output terminal

Pin No.	Pin Name	I/O	Description
56	VCC	—	Power supply terminal (+3.3V)
57	SP RY	O	Relay drive signal (for speaker) output terminal Not used
58	HP RY	O	Relay drive signal (for headphone) output terminal Not used
59	—	—	Not used
60	U-SUB2	O	Serial data output to main system controller
61	—	—	Not used
62	FORMAT	I	Not used
63	HENCYO	I	Not used
64	MUTE	I	Muting on/off control signal input terminal

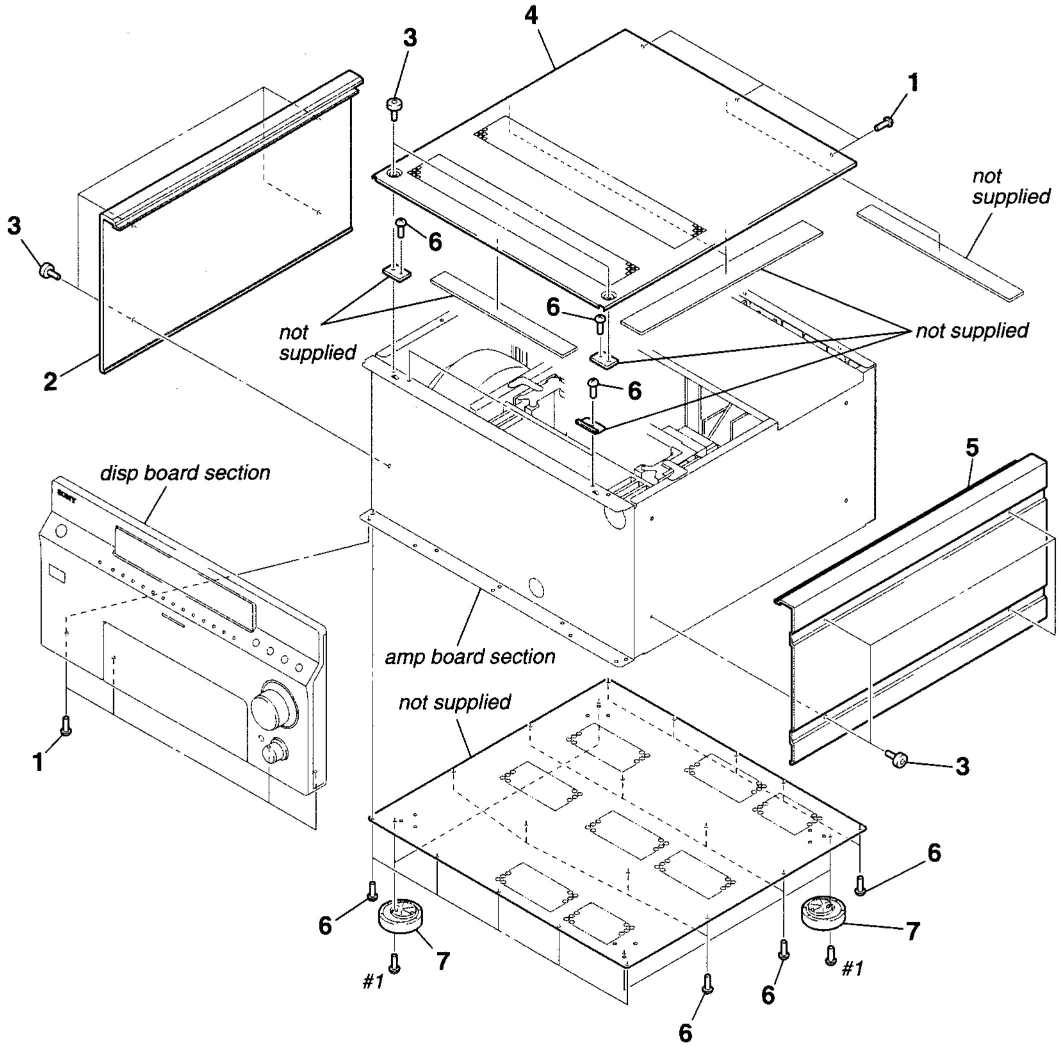
SECTION 7
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  KR : Korean model
  TW : Taiwan model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.
- Color variation
  GOLD : AEP, Korean, Taiwan model
  BLACK : AEP model

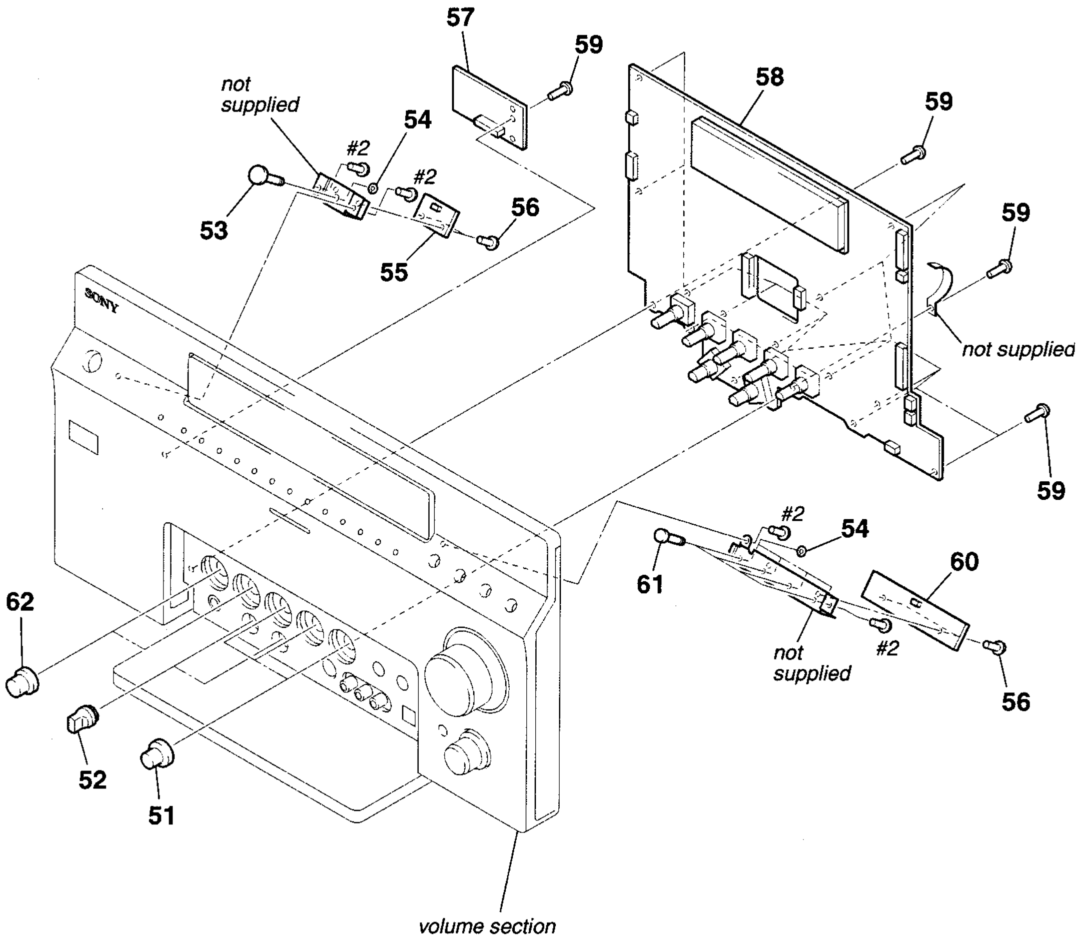
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CASE SECTION



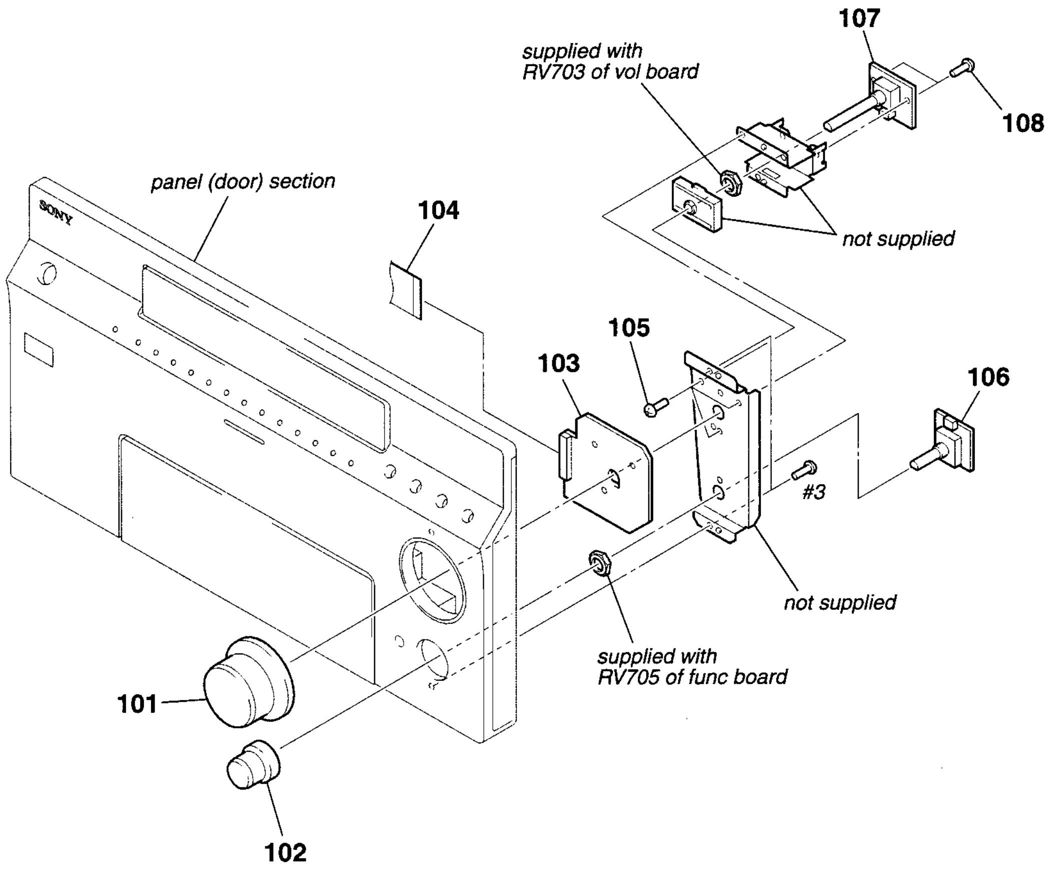
Ref. No.	Part No.	Description	Remark
1	3-704-515-21	SCREW (BV/RING)	
2	4-248-160-21	CASE (SIDE-L) (BLACK)	
2	4-248-160-41	CASE (SIDE-L) (GOLD)	
3	4-248-560-01	SCREW	
4	4-248-165-11	CASE (TOP) (BLACK)	
4	4-248-165-21	CASE (TOP) (GOLD)	
5	4-248-160-31	CASE (SIDE-R) (BLACK)	
5	4-248-160-51	CASE (SIDE-R) (GOLD)	
6	4-974-510-11	SCREW (+BV 3X8 CU)	
7	X-4950-540-2	FOOT ASSY	
#1	7-685-885-09	SCREW +BVTT 4X16 (S)	

7-2. DISP BOARD SECTION


57
59
not supplied
58
59
54
#2
#2
59
56
53
55
not supplied
59
62
#2
54
60
61
not supplied
#2
56
52
51
volume section

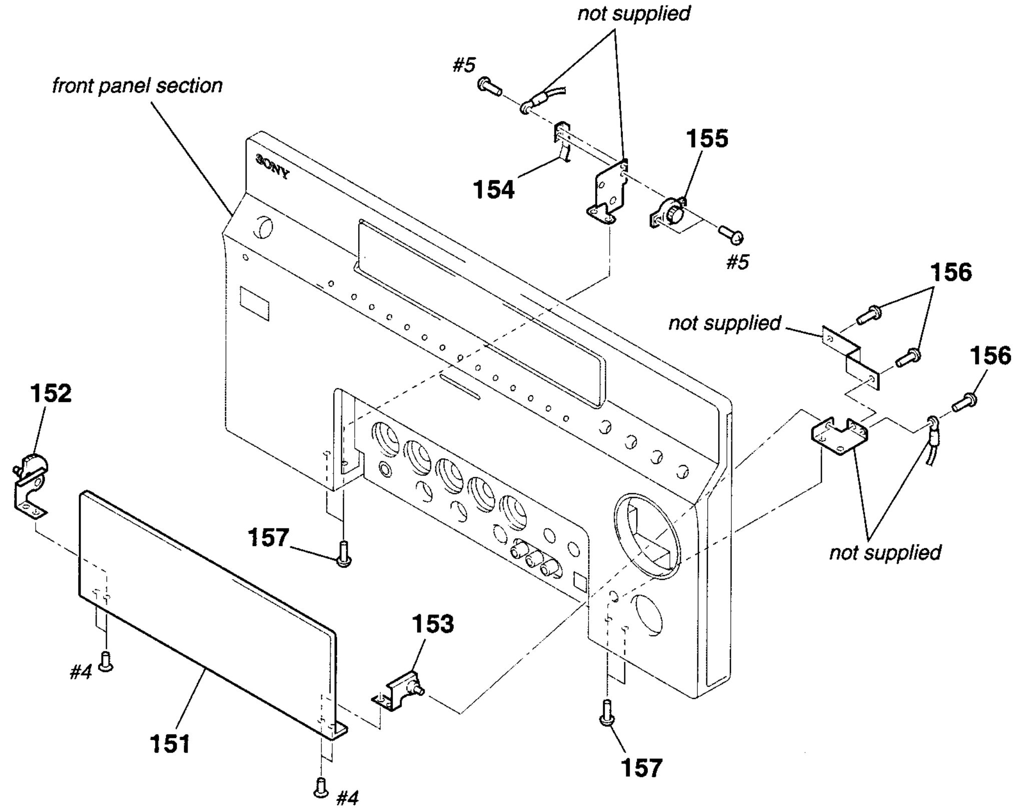
Ref. No.	Part No.	Description	Remark
51	4-248-181-11	KNOB (R19) (BLACK)	
51	4-248-181-21	KNOB (R19) (GOLD)	
52	4-248-182-11	KNOB (F13) (BLACK)	
52	4-248-182-21	KNOB (F13) (GOLD)	
53	4-248-195-11	BUTTON (R13) (BLACK)	
53	4-248-195-21	BUTTON (R13) (GOLD)	
54	3-325-697-11	WASHER	
55	1-688-672-11	POWER BOARD	
56	4-974-510-11	SCREW (+BV 3X8 CU)	
57	A-4733-773-A	IR BOARD, COMPLETE	
58	A-4733-780-A	DISP BOARD, COMPLETE	
59	4-951-620-01	SCREW (2.6X8), +BVTP	
60	A-4733-775-A	S. F BOARD, COMPLETE	
61	4-248-196-11	BUTTON (R7) (BLACK)	
61	4-248-196-21	BUTTON (R7) (GOLD)	
62	4-248-181-41	KNOB (R19) (BLACK)	
62	4-248-181-51	KNOB (R19) (GOLD)	
#2	7-682-545-09	SCREW +B 3X4	

7-3. VOLUME SECTION


107
supplied with
RV703 of vol board
108
panel (door) section
SONY
104
not supplied
105
103
106
#3
not supplied
supplied with
RV705 of func board
101
102

Ref. No.	Part No.	Description	Remark
101	4-248-179-11	KNOB (R55) (BLACK)	
101	4-248-179-21	KNOB (R55) (GOLD)	
102	4-248-180-11	KNOB (R26) (BLACK)	
102	4-248-180-21	KNOB (R26) (GOLD)	
103	A-4733-741-A	VOL. LED BOARD, COMPLETE	
104	1-773-175-11	WIRE (FLAT TYPE) (23 CORE)	
105	4-951-620-01	SCREW (2.6X8), +BVTP	
106	1-688-676-11	FUNC BOARD	
107	1-688-677-11	VOL BOARD	
108	4-974-510-11	SCREW (+BV 3X8 CU)	
#3	7-682-546-04	SCREW +B 3X5	

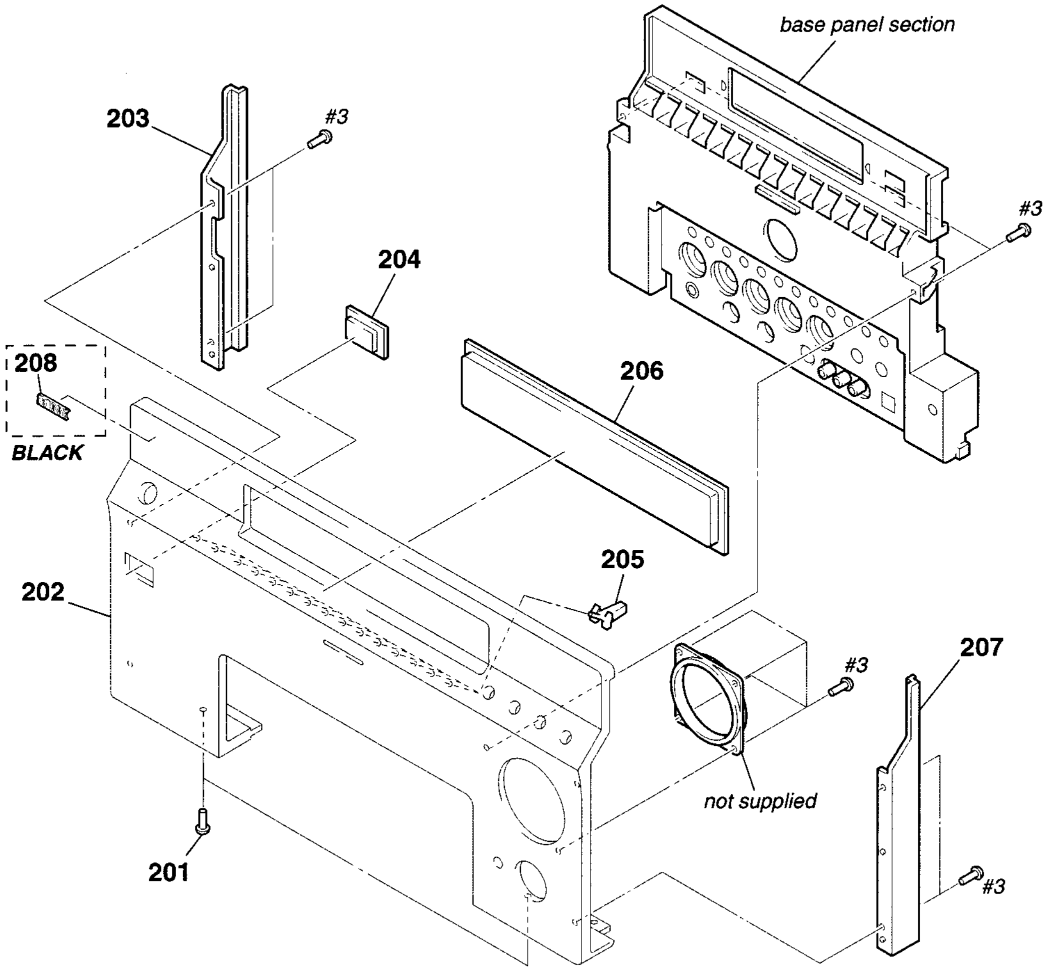
7-4. PANEL (DOOR) SECTION


not supplied
#5
front panel section
155
154
#5
156
not supplied
156
152
not supplied
157
153
#4
151
157
#4

Ref. No.	Part No.	Description	Remark
151	4-248-166-21	PANEL (DOOR) (BLACK)	
151	4-248-166-31	PANEL (DOOR) (GOLD)	
152	X-4955-763-1	HINGE (L) ASSY	
153	X-4955-764-1	HINGE (R) ASSY	
154	4-250-561-01	SPRING (LOCK), LEAF	

Ref. No.	Part No.	Description	Remark
155	4-240-391-01	DAMPER, OIL	
156	4-974-510-11	SCREW (+BV 3X8 CU)	
157	3-703-685-21	SCREW (+BV 3X8)	
#4	7-682-247-09	SCREW +K 3X6	
#5	7-621-772-20	SCREW +B 2X5	

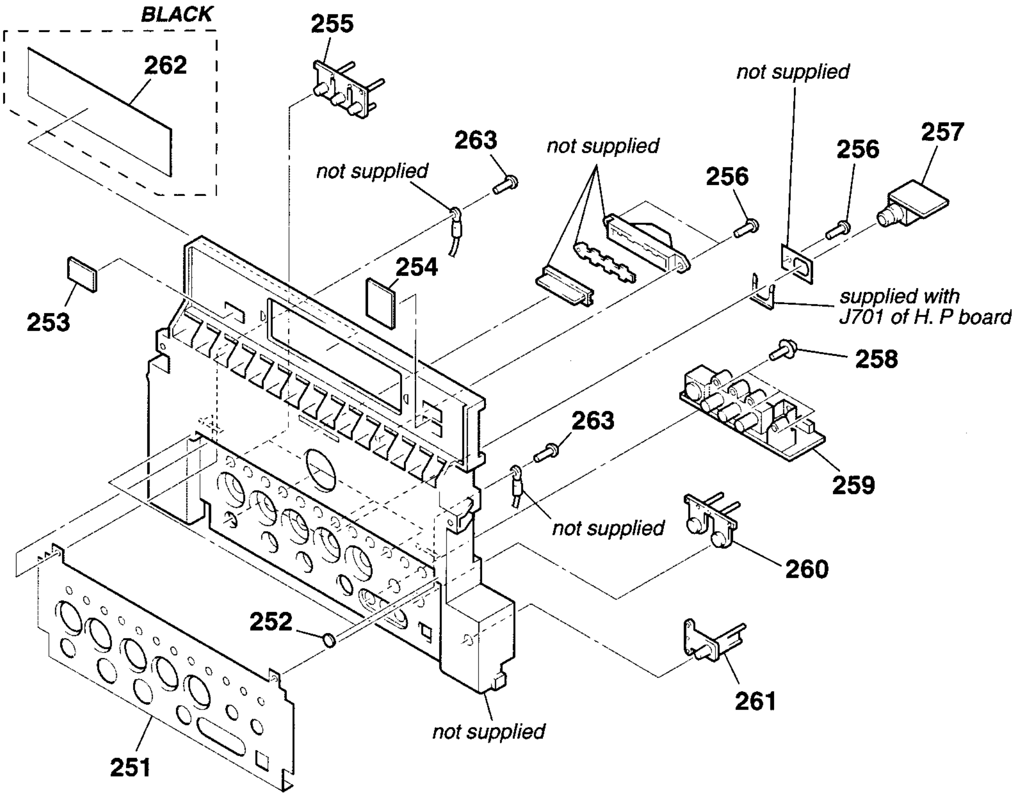
7-5. FRONT PANEL SECTION


base panel section
203
#3
204
208
BLACK
206
#3
205
202
207
#3
not supplied
201
#3

Ref. No.	Part No.	Description	Remark
201	4-974-510-11	SCREW (+BV 3X8 CU)	
202	4-248-163-21	PANEL (D9), FRONT (BLACK)	
202	4-248-163-31	PANEL (D9), FRONT (GOLD)	
203	4-248-164-21	PANEL (SIDE-L) (BLACK)	
203	4-248-164-41	PANEL (SIDE-L) (GOLD)	
204	4-248-161-01	WINDOW (IR)	
205	4-248-169-01	PLATE (S), LIGHT GUIDE	

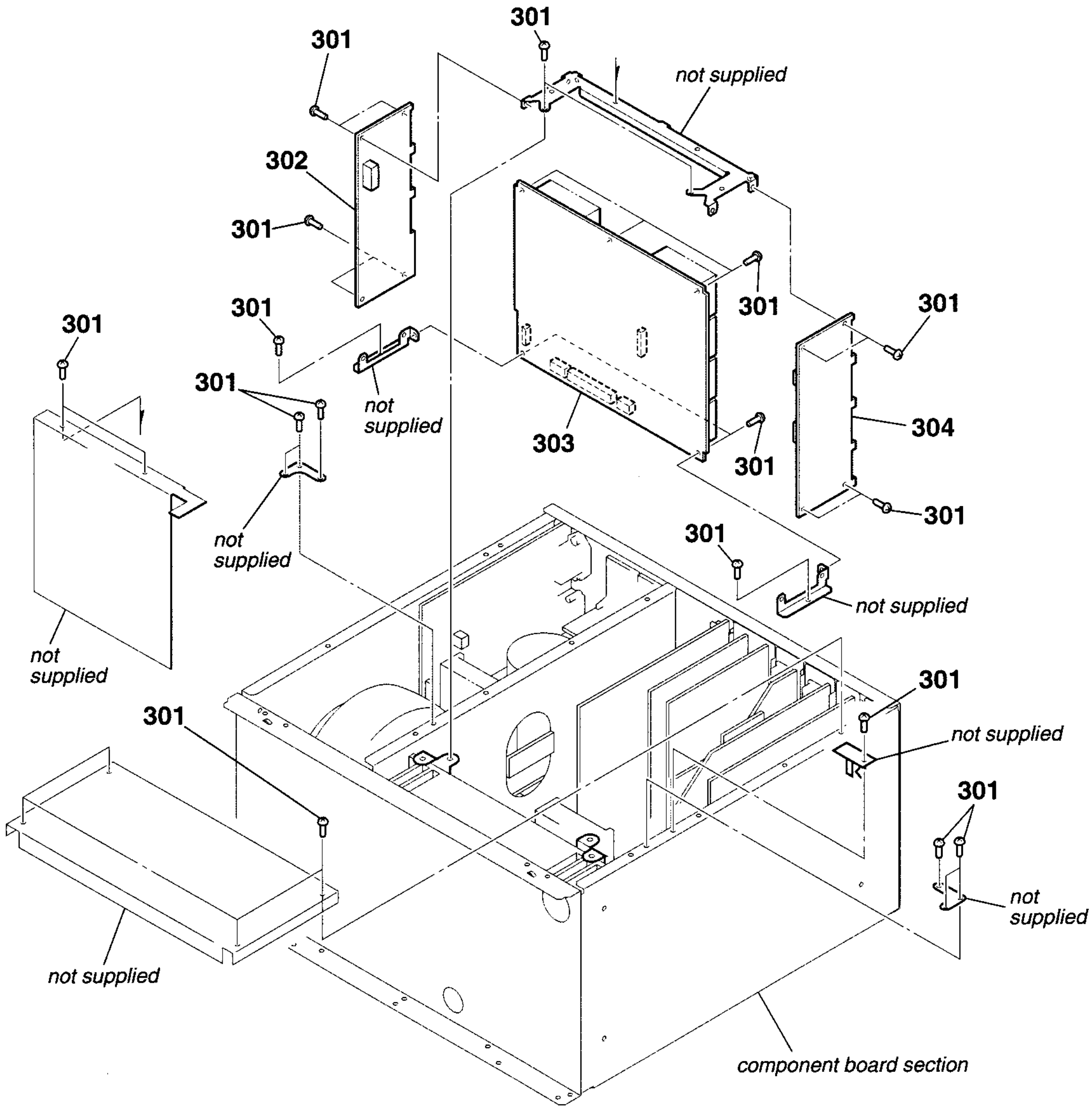
Ref. No.	Part No.	Description	Remark
206	4-248-176-01	PLATE (M), INDICATION (GOLD)	
206	4-248-200-01	PLATE (B), INDICATION (BLACK)	
207	4-248-164-31	PANEL (SIDE-R) (BLACK)	
207	4-248-164-51	PANEL (SIDE-R) (GOLD)	
208	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)	
#3	7-682-546-04	SCREW +B 3X5	

7-6. BASE PANEL SECTION


BLACK
262
255
not supplied
263
not supplied
not supplied
256
256
257
254
253
supplied with
J701 of H. P board
258
263
259
not supplied
260
252
261
not supplied
251

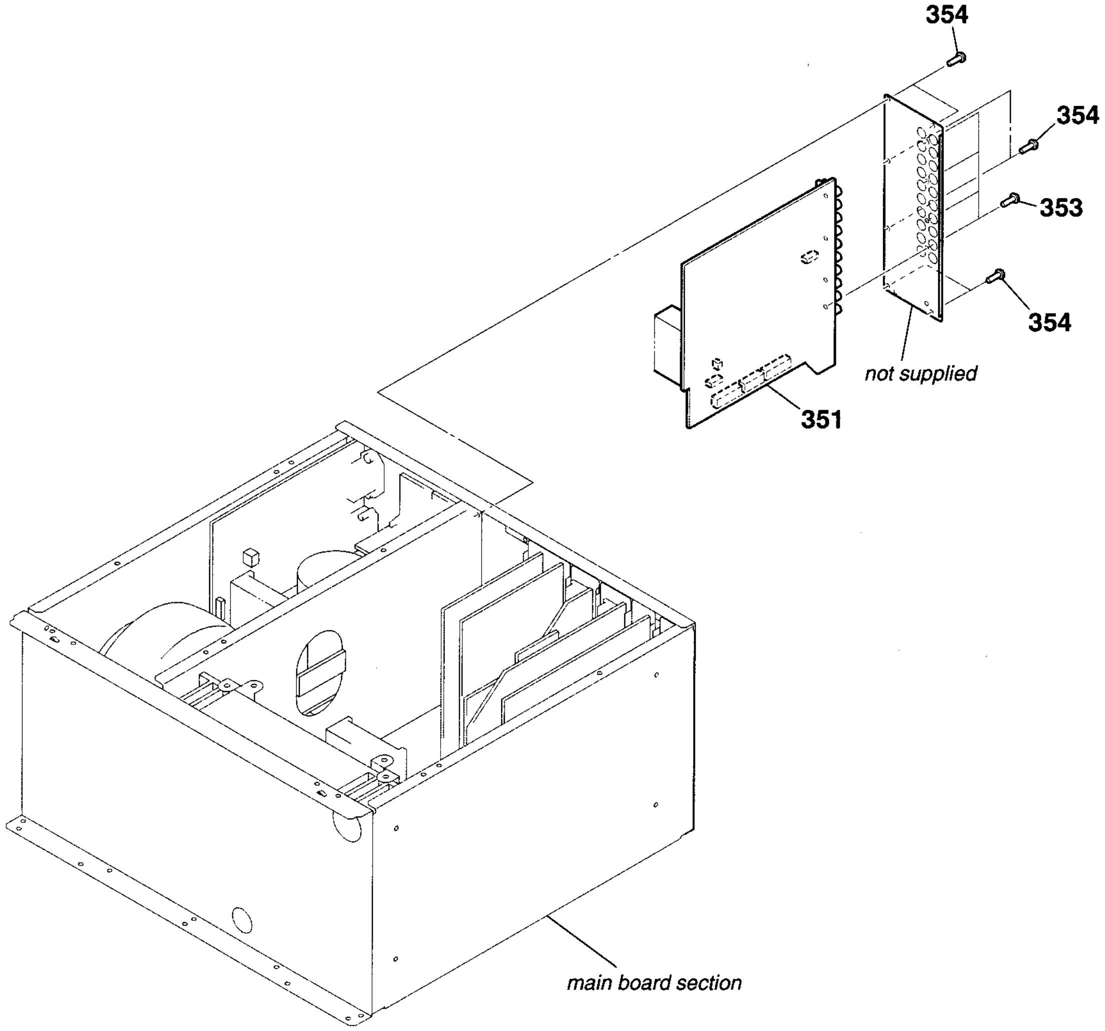
Ref. No.	Part No.	Description	Remark
251	4-248-167-21	PLATE (P), ORNAMENTAL (BLACK)	
251	4-248-167-31	PLATE (P), ORNAMENTAL (GOLD)	
252	4-248-187-01	CUSHION (DOOR) (GOLD)	
252	4-248-187-11	CUSHION (DOOR) (BLACK)	
253	4-248-175-01	ILLUMINATOR (A)	
254	4-248-175-11	ILLUMINATOR (B)	
255	4-248-170-11	BUTTON (A) (BLACK)	
255	4-248-170-21	BUTTON (A) (GOLD)	
256	4-951-620-01	SCREW (2.6X8), +BVTP	
257	1-688-678-11	H. P BOARD	
258	4-933-134-11	SCREW (+PTPWH M2.6X8)	
259	A-4733-784-A	F. VIDEO BOARD, COMPLETE	
260	4-248-171-11	BUTTON (B) (BLACK)	
260	4-248-171-21	BUTTON (B) (GOLD)	
261	4-248-172-11	BUTTON (C) (BLACK)	
261	4-248-172-21	BUTTON (C) (GOLD)	
262	4-248-174-01	FILTER (W) (BLACK)	
263	4-974-510-11	SCREW (+BV 3X8 UC)	

7-7. AMP BOARD SECTION


301
301
not supplied
302
301
301
301
301
301
304
301
301
301
not supplied
303
not supplied
not supplied
301
not supplied
not supplied
301
301
not supplied
301
not supplied
not supplied
component board section

Ref. No.	Part No.	Description	Remark
301	4-974-510-11	SCREW (+BV 3X8 CU)	
302	A-4733-769-A	FCOIL BOARD, COMPLETE	
303	A-4733-838-A	AMP BOARD, COMPLETE	
304	A-4733-771-A	RCOIL BOARD, COMPLETE	

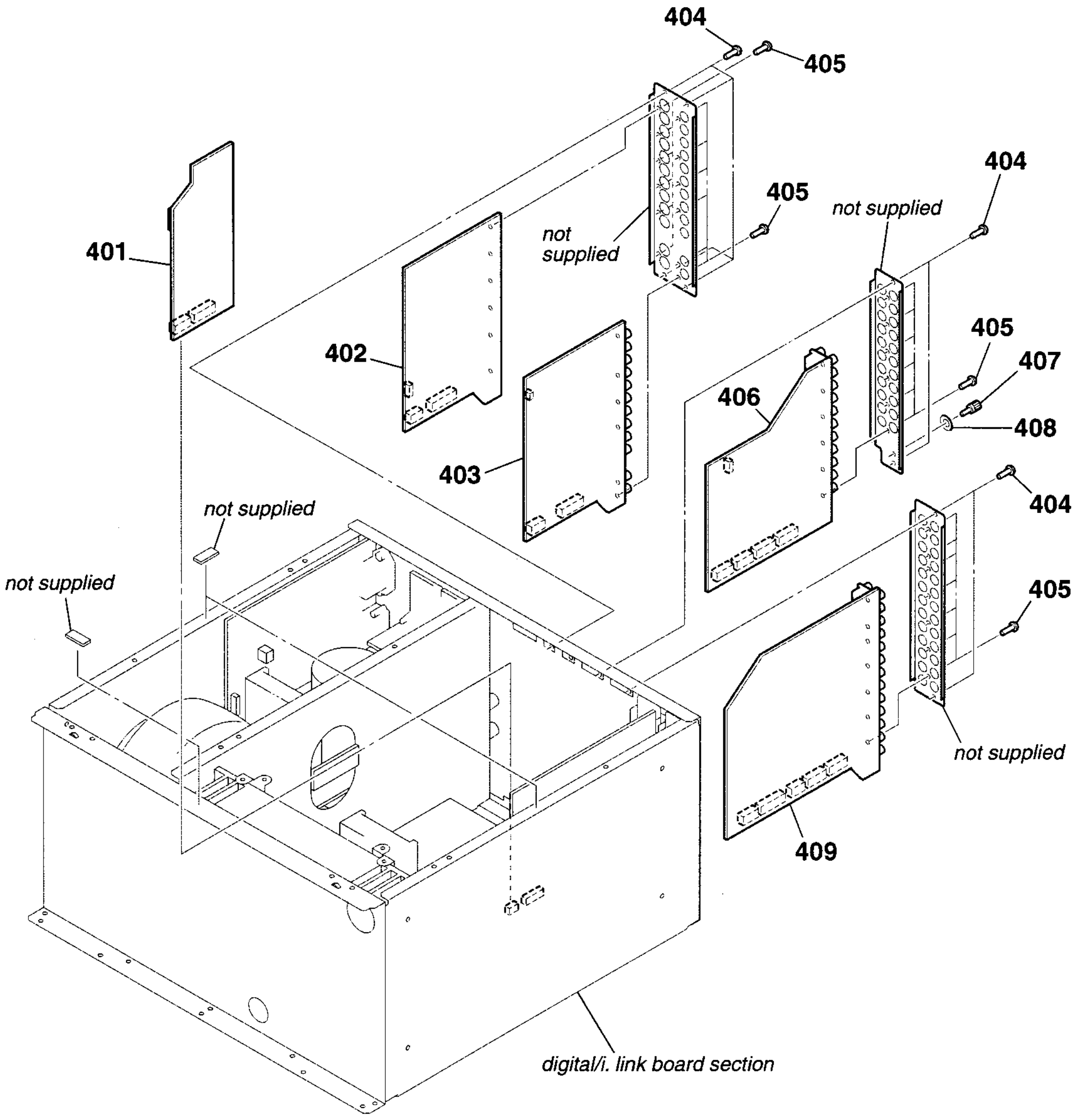
7-8. COMPONENT BOARD SECTION


354
354
353
354
not supplied
351
main board section

Ref. No.	Part No.	Description	Remark
351	A-4733-795-A	COMPONENT BOARD, COMPLETE (TW, KR)	
351	A-4733-853-A	COMPONENT BOARD, COMPLETE (AEP)	

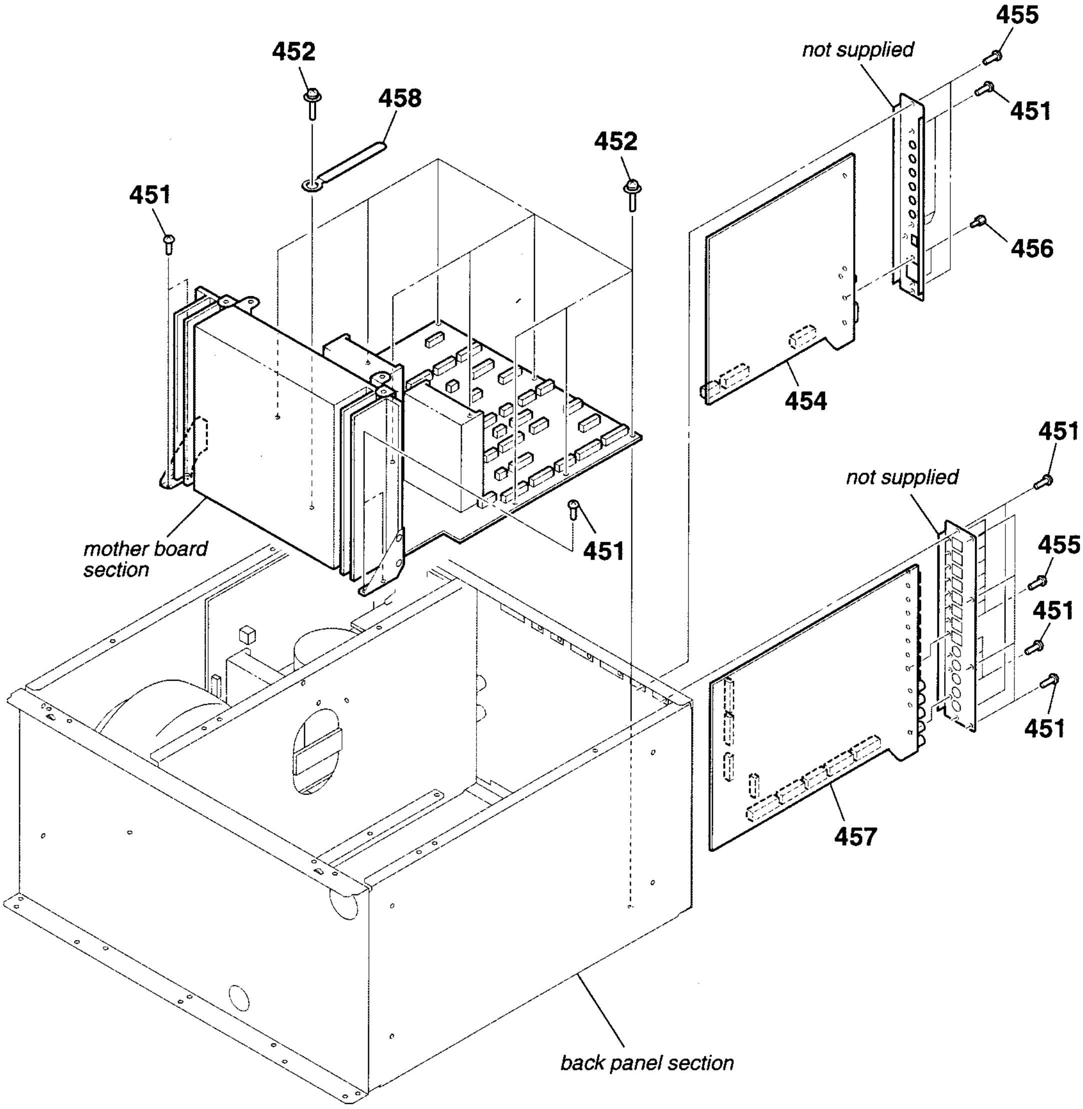
Ref. No.	Part No.	Description	Remark
353	4-974-510-11	SCREW (+BV 3X8 CU)	
354	3-704-515-21	SCREW (BV/RING)	

7-9. MAIN BOARD SECTION


404
405
405
not supplied
404
not supplied
401
not supplied
405
407
402
406
408
403
404
not supplied
not supplied
405
not supplied
409
digital/i. link board section

Ref. No.	Part No.	Description	Remark
401	A-4733-810-A	PREOUT BOARD, COMPLETE	
402	A-4733-744-A	S-VIDEO BOARD, COMPLETE	
403	A-4733-743-A	VIDEO BOARD, COMPLETE	
404	3-704-515-21	SCREW (BV/RING)	
405	4-974-510-11	SCREW (+BV 3X8 CU)	
406	A-4733-790-A	SUB BOARD, COMPLETE	
407	4-947-010-01	SCREW, FEEDER FIXED	
408	4-927-669-01	WASHER (BU)	
409	A-4733-788-A	MAIN BOARD, COMPLETE	

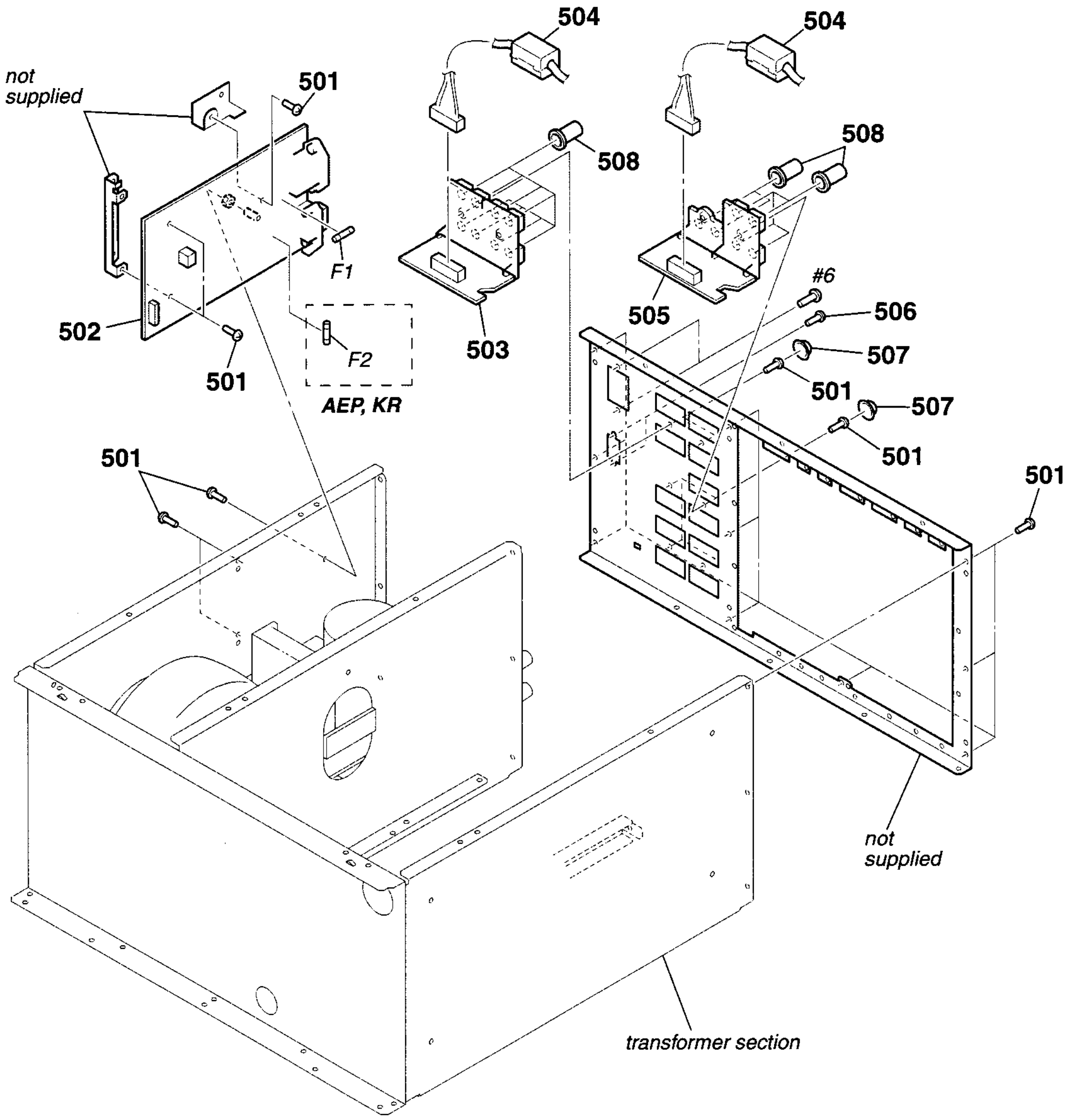
7-10. DIGITAL/I. LINK BOARD SECTION


455
452
not supplied
458
451
452
451
456
451
454
451
not supplied
455
mother board section
451
451
451
457
back panel section

Ref. No.	Part No.	Description	Remark
451	4-974-510-11	SCREW (+BV 3X8 CU)	
452	3-905-609-11	SCREW (TRANSISTOR)	
454	A-4733-835-A	I. LINK BOARD, COMPLETE	
455	3-704-515-21	SCREW (BV/RING)	
456	4-635-966-01	SCREW (HEX)	
457	A-4733-841-A	DIGITAL BOARD, COMPLETE (TW, KR)	
457	A-4733-862-A	DIGITAL BOARD, COMPLETE(AEP)	
* 458	4-662-796-01	CLIP, COACHING	

New part of microcomputer (IC3002) and EEPROM (IC3001) on the I. LINK board cannot be used. Therefore, if the mounted I. LINK board (A-4733-835-A) is replaced, exchange new microcomputer and new EEPROM with that used before the replacement.

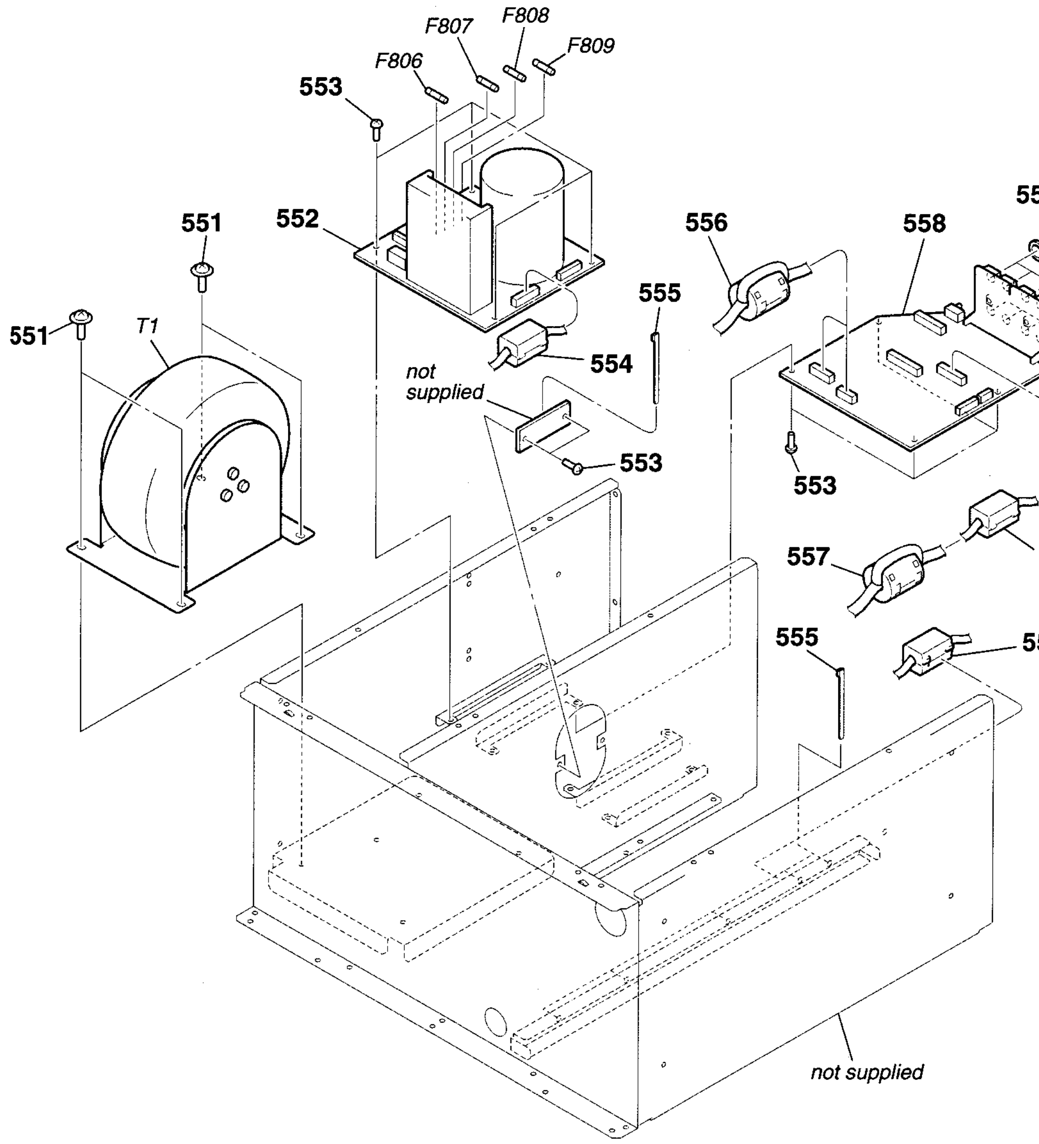
7-11. BACK PANEL SECTION


504
504
not supplied
501
508
508
F1
#6
505
506
502
503
507
501
F2
501
507
AEP, KR
501
501
501
not supplied
transformer section

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
501	4-974-510-11	SCREW (+BV 3X8 CU)	
502	A-4733-826-A	AC BOARD, COMPLETE (KR)	
502	A-4733-851-A	AC BOARD, COMPLETE (AEP)	
502	A-4734-825-A	AC BOARD, COMPLETE (TW)	
503	A-4733-833-A	RSP BOARD, COMPLETE	
504	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
505	A-4733-832-A	CSP BOARD, COMPLETE	
506	3-704-515-21	SCREW (BV/RING)	
507	4-251-318-01	COVER, PROTECTION	
508	4-251-297-01	PLUG, TERMINAL	
⚠F1	1-532-506-51	FUSE (T6.3A/250V) (AEP, KR)	
⚠F1	1-576-379-11	FUSE (15A/250V) (TW)	
⚠F2	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
#6	7-685-659-79	SCREW +BVTP 4X8 TYPE2 IT-3	

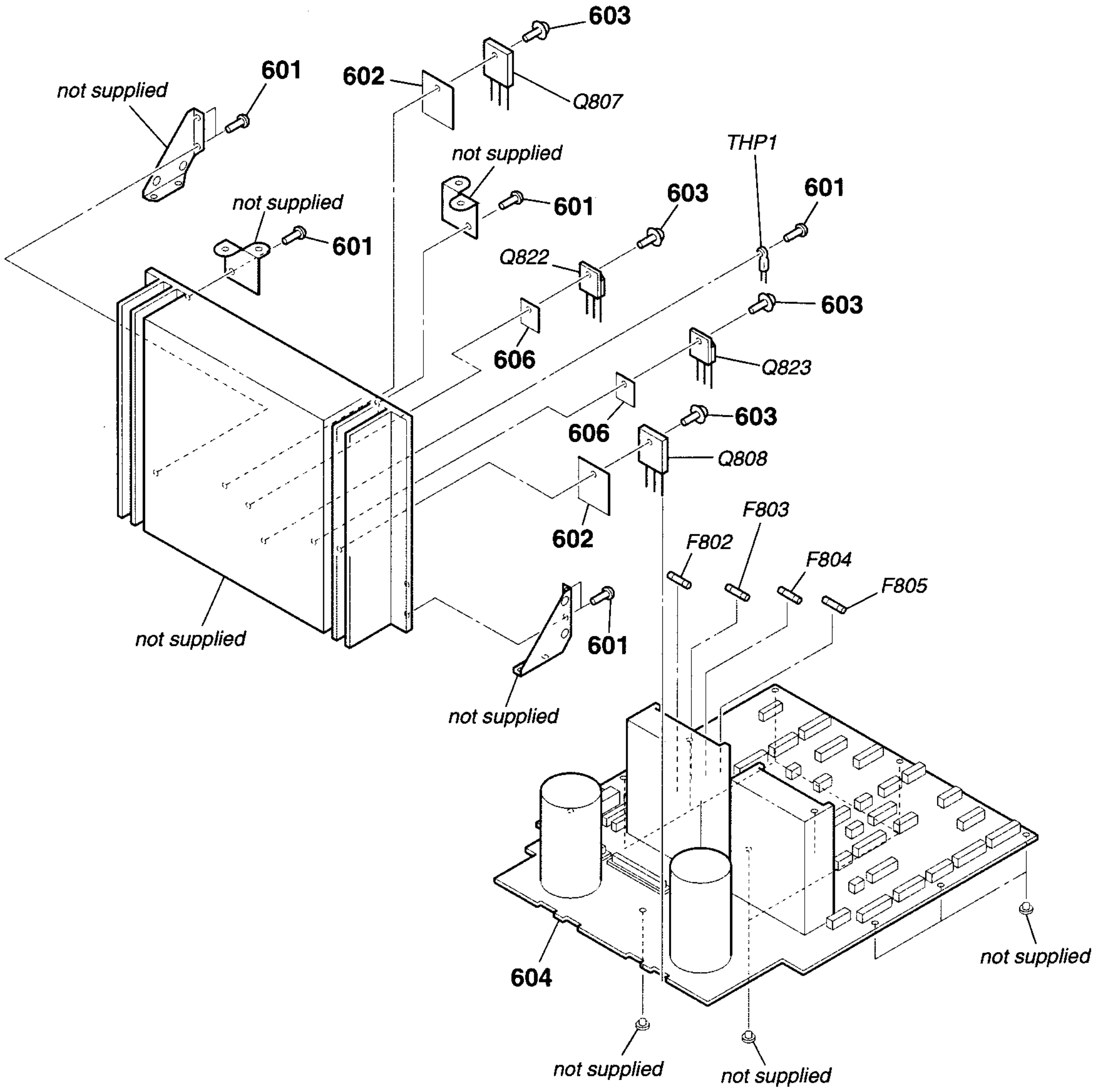
7-12. TRANSFORMER SECTION


F807
F808
F806
F809
553
559
551
552
556
558
555
551
T1
554
not supplied
553
559
553
557
554
555
554
not supplied

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
551	4-394-596-01	SCREW (M5), TERMINAL	
552	A-4733-828-A	DC BOARD, COMPLETE	
553	4-974-510-11	SCREW (+BV 3X8 CU)	
554	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
555	3-655-653-21	BAND (TAITON), BINDING	
556	1-500-021-11	CLAMP, SLEEVE FERRITE	
557	1-500-511-11	CORE, FERRITE	
558	A-4733-831-A	FSP BOARD, COMPLETE	
559	4-251-297-01	PLUG, TERMINAL	
⚠F806	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F806	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F807	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F807	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F808	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F808	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F809	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F809	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠T1	1-439-818-11	TRANSFORMER, POWER (AEP, KR)	
⚠T1	1-439-876-11	TRANSFORMER, POWER (TW)	

7-13. MOTHER BOARD SECTION


603
601
602
not supplied
Q807
not supplied
THP1
not supplied
601
603
601
601
Q822
603
606
Q823
606
603
Q808
602
F803
F802
F804
F805
not supplied
601
not supplied
604
not supplied
not supplied
not supplied

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
601	4-974-510-11	SCREW (+BV 3X8 CU)	
602	4-248-714-11	SHEET (DNK), RADIATION	
603	3-905-609-11	SCREW (TRANSISTOR)	
604	A-4733-848-A	MOTHER BOARD, COMPLETE (TW, KR)	
604	A-4733-869-A	MOTHER BOARD, COMPLETE(AEP)	
606	4-248-714-01	SHEET (DNK), RADIATION	
⚠F802	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F802	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F803	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F803	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	

Ref. No.	Part No.	Description	Remark
⚠F804	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F804	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F805	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F805	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
Q807	6-550-629-01	FET 2SK1382	
Q808	6-550-629-01	FET 2SK1382	
Q822	8-749-010-25	IC MN2488-OPY-M	
Q823	8-749-010-25	IC MN2488-OPY-M	
THP1	1-817-728-11	SENSOR, THERMISTOR	

AC

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  KR : Korean model
  TW : Taiwan model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. .   uPA. . : μPA. .
  uPB. . : μPB. .   uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4733-826-A	AC BOARD, COMPLETE (KR)			
	A-4733-851-A	AC BOARD, COMPLETE (AEP)			
	A-4734-825-A	AC BOARD, COMPLETE (TW)			
		*******************			
	1-533-189-11	FUSE HOLDER			
*	3-309-144-21	HEAT SINK (TW)			
*	4-941-237-01	HEAT SINK (EXCEPT TW)			
	4-974-510-11	SCREW (+BV 3X8 CU)			
		< CAPACITOR >			
⚠C1	1-113-925-11	CERAMIC	0.01uF	20%	250V
C11	1-137-438-11	MYLAR	0.0082uF	5%	50V
C12	1-136-357-11	FILM	680PF	5%	100V
C13	1-135-686-51	ELECT	2200uF		25V
C14	1-135-697-11	ELECT	6800uF		16V
C15	1-137-150-11	FILM	0.01uF	5%	100V
C16	1-119-820-11	ELECT	1uF	20%	50V
C18	1-128-835-51	ELECT	1000uF	20%	10V
⚠C19	1-113-511-11	FILM	0.47uF	20%	275V
⚠C20	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C21	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C22	1-115-165-11	FILM	0.1uF	20%	275V
⚠C23	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C24	1-113-920-11	CERAMIC	0.0022uF	20%	250V
C25	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C26	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CN1	1-816-148-11	INLET, AC (AC IN)			
CN2	1-785-285-11	OUTLET, AC (1P) (AC OUTLET 1 SWITCHED, 100W MAX) (AEP)			
CN14	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN15	1-564-510-11	PLUG (MICRO CONNECTOR) 6P			
		< DIODE >			
D11	8-719-210-39	DIODE EC10QS-04			
D12	8-719-210-39	DIODE EC10QS-04			
D13	8-719-016-74	DIODE 1SS352			
D14	8-719-016-74	DIODE 1SS352			
D15	8-719-210-39	DIODE EC10QS-04			
D16	8-719-210-39	DIODE EC10QS-04			
D17	8-719-016-74	DIODE 1SS352			
D18	8-719-053-18	DIODE 1SR154-400TE-25			
D19	8-719-016-74	DIODE 1SS352			

Ref. No.	Part No.	Description			Remark
		< EARTH TERMINAL >			
EP12	1-537-770-21	TERMINAL BOARD, GROUND			
EP13	1-537-770-21	TERMINAL BOARD, GROUND			
EP14	1-537-770-21	TERMINAL BOARD, GROUND			
		< IC >			
IC12	8-759-450-47	IC BA05T			
		< COIL >			
⚠LF02	1-456-572-11	INDUCTOR	3.3mH (TW)		
⚠LF02	1-456-573-11	INDUCTOR	8.2mH (EXCEPT TW)		
⚠LF1	1-456-574-11	INDUCTOR	1.2mH		
		< TRANSISTOR >			
Q11	8-729-200-72	TRANSISTOR	2SC2712L-TE85L		
Q12	8-729-200-72	TRANSISTOR	2SC2712L-TE85L		
Q13	8-729-200-72	TRANSISTOR	2SC2712L-TE85L		
Q14	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q15	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q16	8-729-140-93	TRANSISTOR	2SB733-34		
		< RESISTOR >			
⚠R1	1-217-782-11	FUSIBLE	3.3	5%	5W F (TW)
⚠R1	1-217-783-11	FUSIBLE	4.7	5%	5W F (EXCEPT TW)
⚠R2	1-217-782-11	FUSIBLE	3.3	5%	5W F (TW)
⚠R2	1-217-783-11	FUSIBLE	4.7	5%	5W F (EXCEPT TW)
⚠R3	1-217-782-11	FUSIBLE	3.3	5%	5W F (TW)
⚠R3	1-217-783-11	FUSIBLE	4.7	5%	5W F (EXCEPT TW)
R11	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R12	1-208-462-41	RES-CHIP	10K	2%	1/10W
R13	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R14	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R15	1-249-389-11	CARBON	4.7	5%	1/4W
R16	1-208-518-41	RES-CHIP	22K	2%	1/10W
R17	1-208-462-41	RES-CHIP	10K	2%	1/10W
R18	1-208-526-41	RES-CHIP	47K	2%	1/10W
R19	1-208-462-41	RES-CHIP	10K	2%	1/10W

Ref. No.	Part No.	Description			Remark
R20	1-208-462-41	RES-CHIP	10K	2%	1/10W
R21	1-208-462-41	RES-CHIP	10K	2%	1/10W
R22	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R23	1-208-462-41	RES-CHIP	10K	2%	1/10W
R24	1-249-389-11	CARBON	4.7	5%	1/4W
⚠R27	1-219-237-91	SOLID	3.3M	20%	1/2W
		< RELAY >			
⚠RY1	1-755-439-11	RELAY			
⚠RY2	1-755-266-11	RELAY, AC POWER			
		< TRANSFORMER >			
⚠T2	1-435-163-21	TRANSFORMER, POWER (EXCEPT TW)			
⚠T2	1-437-477-12	TRANSFORMER, POWER (TW)			

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Ref. No.	Part No.	Description			Remark
	A-4733-838-A	AMP BOARD, COMPLETE ********************			
	4-974-510-11	SCREW (+BV 3X8 CU)			
		< CAPACITOR >			
C1501	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1502	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1504	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1505	1-100-629-11	ELECT	270uF	20%	10V
C1506	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1507	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1508	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1509	1-100-629-11	ELECT	270uF	20%	10V
C1510	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1511	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1512	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1513	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1514	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1515	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1516	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1517	1-100-621-11	ELECT	470uF	20%	10V
C1518	1-100-621-11	ELECT	470uF	20%	10V
C1519	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1520	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1521	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1522	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1523	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1524	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1525	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1526	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1527	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1528	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1529	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1530	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1531	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1532	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1533	1-100-621-11	ELECT	470uF	20%	10V
C1534	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1535	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1536	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1537	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1538	1-100-621-11	ELECT	470uF	20%	10V
C1539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1540	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1541	1-100-621-11	ELECT	470uF	20%	10V
C1542	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1543	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1545	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1546	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1547	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1548	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1549	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1550	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1551	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1552	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1553	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1554	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1555	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1556	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1559	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1560	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1561	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1562	1-100-621-11	ELECT	470uF	20%	10V
C1563	1-100-621-11	ELECT	470uF	20%	10V
C1564	1-100-621-11	ELECT	470uF	20%	10V
C1566	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1567	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1568	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1572	1-100-629-11	ELECT	270uF	20%	10V
C1573	1-100-629-11	ELECT	270uF	20%	10V
C1574	1-100-629-11	ELECT	270uF	20%	10V
C1575	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1576	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1577	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1578	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1579	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1580	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1581	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1582	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1583	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1584	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1585	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1586	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1587	1-135-730-91	ELECT	100uF		100V
C1588	1-135-730-91	ELECT	100uF		100V
C1589	1-135-730-91	ELECT	100uF		100V
C1596	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1597	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1598	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1599	1-100-621-11	ELECT	470uF	20%	10V
C1600	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1601	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1602	1-100-621-11	ELECT	470uF	20%	10V
C1603	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1604	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1605	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1606	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1607	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1608	1-162-974-11	CERAMIC CHIP	0.01uF		50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMP

Ref. No.	Part No.	Description			Remark
C1609	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1610	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1611	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1612	1-100-621-11	ELECT	470uF	20%	10V
C1613	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1614	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1615	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1616	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1617	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1618	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1619	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1620	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1621	1-100-621-11	ELECT	470uF	20%	10V
C1622	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1623	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1624	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1625	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1626	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1627	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1628	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1629	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1630	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1631	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1632	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1633	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1634	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1635	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1636	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1637	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1638	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1639	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1640	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1641	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1642	1-100-621-11	ELECT	470uF	20%	10V
C1643	1-100-621-11	ELECT	470uF	20%	10V
C1644	1-100-621-11	ELECT	470uF	20%	10V
C1645	1-100-621-11	ELECT	470uF	20%	10V
C1646	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1647	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1648	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1649	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1650	1-100-629-11	ELECT	270uF	20%	10V
C1651	1-100-629-11	ELECT	270uF	20%	10V
C1652	1-100-629-11	ELECT	270uF	20%	10V
C1653	1-100-629-11	ELECT	270uF	20%	10V
C1654	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1655	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1656	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1657	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1658	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1659	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1660	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1661	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1662	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1663	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1664	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1665	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V

Ref. No.	Part No.	Description			Remark
C1666	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1667	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1668	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1669	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1670	1-135-730-91	ELECT	100uF		100V
C1671	1-135-730-91	ELECT	100uF		100V
C1672	1-135-730-91	ELECT	100uF		100V
C1673	1-135-730-91	ELECT	100uF		100V
C1683	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1684	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1685	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1686	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1687	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1688	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1689	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1690	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1695	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1696	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1697	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1698	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1699	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1700	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1702	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1703	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1704	1-100-187-11	MYLAR	0.27uF	5%	250V
C1705	1-100-187-11	MYLAR	0.27uF	5%	250V
C1706	1-100-187-11	MYLAR	0.27uF	5%	250V
C1707	1-100-187-11	MYLAR	0.27uF	5%	250V
C1708	1-100-187-11	MYLAR	0.27uF	5%	250V
C1709	1-100-187-11	MYLAR	0.27uF	5%	250V
C1710	1-100-187-11	MYLAR	0.27uF	5%	250V
C1711	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1712	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1713	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C1770	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
* CN1501	1-770-734-11	CONNECTOR, BOARD TO BOARD 20P			
CN1502	1-784-923-11	PIN, CONNECTOR 7P			
CN1503	1-794-003-11	CONNECTOR 15P			
CN1507	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P			
CN1508	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D1504	8-719-016-74	DIODE	1SS352		
D1505	8-719-210-39	DIODE	EC10QS-04		
D1506	8-719-210-39	DIODE	EC10QS-04		
D1507	8-719-210-39	DIODE	EC10QS-04		
D1508	8-719-210-39	DIODE	EC10QS-04		
D1509	8-719-210-39	DIODE	EC10QS-04		
D1510	8-719-210-39	DIODE	EC10QS-04		
D1511	8-719-210-39	DIODE	EC10QS-04		
D1512	8-719-210-39	DIODE	EC10QS-04		
D1513	8-719-210-39	DIODE	EC10QS-04		
D1514	8-719-210-39	DIODE	EC10QS-04		
D1515	8-719-210-39	DIODE	EC10QS-04		
D1516	8-719-210-39	DIODE	EC10QS-04		

Ref. No.	Part No.	Description	Remark
D1517	8-719-210-39	DIODE EC10QS-04	
D1518	8-719-210-39	DIODE EC10QS-04	
		< EARTH TERMINAL >	
EP1501	1-537-770-21	TERMINAL BOARD, GROUND	
EP1502	1-537-770-21	TERMINAL BOARD, GROUND	
EP1503	1-537-770-21	TERMINAL BOARD, GROUND	
EP1504	1-537-770-21	TERMINAL BOARD, GROUND	
EP1505	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB1501	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1502	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1503	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1504	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1505	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1506	1-414-813-11	FERRITE, EMI (SMD) (2012)	
		< IC >	
IC1504	6-702-673-01	IC CXD9730Q	
IC1505	6-702-673-01	IC CXD9730Q	
IC1506	8-759-523-08	IC TC74AC08FT (EL)	
IC1507	8-759-523-08	IC TC74AC08FT (EL)	
IC1508	8-759-523-08	IC TC74AC08FT (EL)	
IC1509	8-759-523-08	IC TC74AC08FT (EL)	
IC1510	8-759-523-08	IC TC74AC08FT (EL)	
IC1511	8-759-523-08	IC TC74AC08FT (EL)	
IC1513	1-805-248-11	MODULE (HYBRID IC)	
IC1514	1-805-248-11	MODULE (HYBRID IC)	
IC1515	1-805-248-11	MODULE (HYBRID IC)	
IC1516	6-702-673-01	IC CXD9730Q	
IC1517	6-702-673-01	IC CXD9730Q	
IC1518	8-759-523-08	IC TC74AC08FT (EL)	
IC1519	8-759-523-08	IC TC74AC08FT (EL)	
IC1520	8-759-523-08	IC TC74AC08FT (EL)	
IC1521	8-759-523-08	IC TC74AC08FT (EL)	
IC1522	8-759-523-08	IC TC74AC08FT (EL)	
IC1523	8-759-523-08	IC TC74AC08FT (EL)	
IC1524	8-759-523-08	IC TC74AC08FT (EL)	
IC1525	8-759-523-08	IC TC74AC08FT (EL)	
IC1526	1-805-248-11	MODULE (HYBRID IC)	
IC1527	1-805-248-11	MODULE (HYBRID IC)	
IC1528	1-805-248-11	MODULE (HYBRID IC)	
IC1529	1-805-248-11	MODULE (HYBRID IC)	
IC1530	8-759-058-62	IC TC7S08FU (TE85R)	
IC1531	8-759-196-96	IC TC7SH08FU-TE85R	
IC1800	6-802-974-01	IC MB89537APFM-G-461-BNDE1	
		< TRANSISTOR >	
Q1503	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1504	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1505	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1506	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1507	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1508	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1509	8-729-216-31	TRANSISTOR 2SA1163-G	
Q1513	8-729-271-31	TRANSISTOR 2SC2713-G	

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R1503	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1504	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1505	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1506	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1507	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1508	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1509	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1510	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1511	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1512	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1513	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1514	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1515	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1516	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1517	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1518	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1519	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1520	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1521	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1522	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1528	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1531	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1532	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1533	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1534	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1535	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1537	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1539	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1540	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1541	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1542	1-216-295-00	SHORT CHIP 0	
R1543	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1544	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1545	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1546	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1547	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1549	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1550	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1551	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1552	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R1553	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R1554	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1555	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1564	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1565	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1566	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1567	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1568	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1569	1-216-295-00	SHORT CHIP 0	
R1572	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1574	1-211-960-11	METAL CHIP 22 0.5% 1/10W	
R1581	1-208-425-41	RES-CHIP 330 2% 1/10W	
R1582	1-208-425-41	RES-CHIP 330 2% 1/10W	
R1583	1-208-425-41	RES-CHIP 330 2% 1/10W	
R1584	1-208-425-41	RES-CHIP 330 2% 1/10W	
R1585	1-208-425-41	RES-CHIP 330 2% 1/10W	

AMP

Ref. No.	Part No.	Description			Remark
R1586	1-208-425-41	RES-CHIP	330	2%	1/10W
R1587	1-208-425-41	RES-CHIP	330	2%	1/10W
R1588	1-208-425-41	RES-CHIP	330	2%	1/10W
R1589	1-208-425-41	RES-CHIP	330	2%	1/10W
R1590	1-208-425-41	RES-CHIP	330	2%	1/10W
R1591	1-208-425-41	RES-CHIP	330	2%	1/10W
R1592	1-208-425-41	RES-CHIP	330	2%	1/10W
R1601	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1602	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1603	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1604	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1605	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1606	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1607	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1608	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1609	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1610	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1611	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1612	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1613	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1614	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1615	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1616	1-219-365-11	SHORT CHIP	0		
R1618	1-219-365-11	SHORT CHIP	0		
R1619	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1620	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1621	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1622	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1623	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1624	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1625	1-208-425-41	RES-CHIP	330	2%	1/10W
R1626	1-208-425-41	RES-CHIP	330	2%	1/10W
R1627	1-208-425-41	RES-CHIP	330	2%	1/10W
R1628	1-208-425-41	RES-CHIP	330	2%	1/10W
R1629	1-208-425-41	RES-CHIP	330	2%	1/10W
R1630	1-208-425-41	RES-CHIP	330	2%	1/10W
R1631	1-208-425-41	RES-CHIP	330	2%	1/10W
R1632	1-208-425-41	RES-CHIP	330	2%	1/10W
R1633	1-208-425-41	RES-CHIP	330	2%	1/10W
R1634	1-208-425-41	RES-CHIP	330	2%	1/10W
R1635	1-208-425-41	RES-CHIP	330	2%	1/10W
R1636	1-208-425-41	RES-CHIP	330	2%	1/10W
R1637	1-208-425-41	RES-CHIP	330	2%	1/10W
R1638	1-208-425-41	RES-CHIP	330	2%	1/10W
R1639	1-208-425-41	RES-CHIP	330	2%	1/10W
R1640	1-208-425-41	RES-CHIP	330	2%	1/10W
R1641	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1642	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1643	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1644	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1645	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1646	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1647	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1648	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1649	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1650	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1651	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1652	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1653	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1654	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1655	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1656	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1657	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1658	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1659	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1660	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1661	1-219-365-11	SHORT CHIP	0		
R1662	1-219-365-11	SHORT CHIP	0		
R1663	1-219-365-11	SHORT CHIP	0		
R1664	1-219-365-11	SHORT CHIP	0		
R1665	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1666	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1667	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1668	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1669	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1670	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1671	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1672	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1674	1-216-295-00	SHORT CHIP	0		
R1676	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1680	1-216-295-00	SHORT CHIP	0		
R1684	1-219-796-11	RES-CHIP	0.025	1%	1W
R1686	1-216-295-00	SHORT CHIP	0		
R1688	1-216-295-00	SHORT CHIP	0		
R1690	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1692	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1693	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1694	1-219-365-11	SHORT CHIP	0		
R1695	1-219-796-11	RES-CHIP	0.025	1%	1W
R1696	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1697	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1699	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1700	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1703	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1705	1-219-796-11	RES-CHIP	0.025	1%	1W
R1707	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1708	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1709	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1710	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1712	1-219-796-11	RES-CHIP	0.025	1%	1W
R1714	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1715	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1716	1-219-796-11	RES-CHIP	0.025	1%	1W
R1717	1-219-796-11	RES-CHIP	0.025	1%	1W
R1718	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1720	1-219-796-11	RES-CHIP	0.025	1%	1W
R1721	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1722	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1724	1-216-295-00	SHORT CHIP	0		
R1725	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1726	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1727	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1729	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R1730	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R1731	1-216-603-11	METAL CHIP	10	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X1501	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
X1502	1-781-179-21	OSCILLATOR, CRYSTAL (49.125MHz)			
		**			
	A-4733-795-A	COMPONENT BOARD, COMPLETE (TW, KR)			
	A-4733-853-A	COMPONENT BOARD, COMPLETE (AEP)			
		***************************			
		< CAPACITOR >			
C1280	1-119-801-21	ELECT	220uF	20%	25V
C1281	1-119-801-21	ELECT	220uF	20%	25V
C1304	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1305	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1306	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1311	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1313	1-119-850-11	ELECT	10uF	20%	100V
C1314	1-119-835-31	ELECT	33uF	20%	63V
C1315	1-119-834-11	ELECT	22uF	20%	63V
C1316	1-119-834-11	ELECT	22uF	20%	63V
C1317	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1318	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1319	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1320	1-119-834-11	ELECT	22uF	20%	63V
C1321	1-119-834-11	ELECT	22uF	20%	63V
C1322	1-119-850-11	ELECT	10uF	20%	100V
C1323	1-119-835-31	ELECT	33uF	20%	63V
C1324	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1325	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1326	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1327	1-119-850-11	ELECT	10uF	20%	100V
C1328	1-119-835-31	ELECT	33uF	20%	63V
C1329	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1330	1-119-834-11	ELECT	22uF	20%	63V
C1331	1-119-834-11	ELECT	22uF	20%	63V
C1332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1333	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1334	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1335	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1336	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1337	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1338	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1339	1-119-834-11	ELECT	22uF	20%	63V
C1340	1-119-834-11	ELECT	22uF	20%	63V
C1341	1-119-850-11	ELECT	10uF	20%	100V
C1342	1-119-835-31	ELECT	33uF	20%	63V
C1343	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1344	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1345	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1346	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1347	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1348	1-119-850-11	ELECT	10uF	20%	100V
C1349	1-119-835-31	ELECT	33uF	20%	63V
C1350	1-119-834-11	ELECT	22uF	20%	63V
C1351	1-119-834-11	ELECT	22uF	20%	63V
C1353	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V

Ref. No.	Part No.	Description			Remark
C1354	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1355	1-119-834-11	ELECT	22uF	20%	63V
C1356	1-119-834-11	ELECT	22uF	20%	63V
C1357	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1358	1-119-850-11	ELECT	10uF	20%	100V
C1359	1-119-835-31	ELECT	33uF	20%	63V
C1360	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1361	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1362	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1364	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1365	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1367	1-119-850-11	ELECT	10uF	20%	100V
C1368	1-119-835-31	ELECT	33uF	20%	63V
C1369	1-119-834-11	ELECT	22uF	20%	63V
C1370	1-119-834-11	ELECT	22uF	20%	63V
C1371	1-119-834-11	ELECT	22uF	20%	63V
C1372	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1373	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1374	1-119-834-11	ELECT	22uF	20%	63V
C1375	1-119-834-11	ELECT	22uF	20%	63V
C1376	1-119-850-11	ELECT	10uF	20%	100V
C1377	1-119-835-31	ELECT	33uF	20%	63V
C1378	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C1379	1-119-834-11	ELECT	22uF	20%	63V
C1380	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1381	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1382	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1383	1-127-726-91	ELECT	470uF	20%	25V
C1384	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1385	1-119-820-11	ELECT	1uF	20%	50V
C1386	1-119-820-11	ELECT	1uF	20%	50V
C1387	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1388	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP)
C1389	1-119-823-11	ELECT	4.7uF	20%	50V
C1390	1-136-165-00	MYLAR	0.1uF	5%	50V (AEP)
C1391	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1392	1-136-165-00	MYLAR	0.1uF	5%	50V (AEP)
C1393	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1394	1-136-165-00	MYLAR	0.1uF	5%	50V (AEP)
C1395	1-136-165-00	MYLAR	0.1uF	5%	50V (AEP)
C1396	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1397	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1398	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1399	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1400	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1401	1-163-231-11	CERAMIC CHIP	15PF	5%	50V (AEP)
C1402	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C1403	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1404	1-128-858-11	ELECT	22uF	20%	50V (AEP)
C1405	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP)
C1406	1-128-854-11	ELECT	0.47uF	20%	50V

COMPONENT

Ref. No.	Part No.	Description			Remark
C1407	1-119-820-11	ELECT	1uF	20%	50V
C1408	1-119-824-11	ELECT	10uF	20%	50V
C1409	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1410	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1411	1-119-824-11	ELECT	10uF	20%	50V
C1412	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1413	1-119-824-11	ELECT	10uF	20%	50V
C1414	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1415	1-128-858-11	ELECT	22uF	20%	50V
C1416	1-127-718-91	ELECT	100uF	20%	16V
C1417	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1418	1-119-823-11	ELECT	4.7uF	20%	50V
C1419	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1420	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1421	1-128-854-11	ELECT	0.47uF	20%	50V
C1422	1-119-820-11	ELECT	1uF	20%	50V
C1423	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C1424	1-119-824-11	ELECT	10uF	20%	50V
C1425	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1426	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1427	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1428	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1429	1-128-854-11	ELECT	0.47uF	20%	50V
C1430	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1431	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1432	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1433	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1434	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1435	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1436	1-137-658-91	ELECT	1000uF	20%	6.3V
C1437	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1438	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1439	1-119-823-11	ELECT	4.7uF	20%	50V
C1440	1-127-718-91	ELECT	100uF	20%	16V
C1441	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1442	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1443	1-127-718-91	ELECT	100uF	20%	16V
C1444	1-128-858-11	ELECT	22uF	20%	50V
C1445	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1446	1-119-822-11	ELECT	3.3uF	20%	50V
C1447	1-136-153-00	MYLAR	0.01uF	5%	50V
C1448	1-119-827-11	ELECT	47uF	20%	50V
C1449	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1450	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1451	1-119-824-11	ELECT	10uF	20%	50V
C1452	1-136-165-00	MYLAR	0.1uF	5%	50V
C1453	1-137-658-91	ELECT	1000uF	20%	6.3V
C1454	1-128-858-11	ELECT	22uF	20%	50V
C1455	1-119-823-11	ELECT	4.7uF	20%	50V
C1456	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1457	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1458	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1459	1-127-718-91	ELECT	100uF	20%	16V
C1460	1-119-822-11	ELECT	3.3uF	20%	50V
C1461	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1462	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1463	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1464	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1465	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1466	1-128-840-11	ELECT	47uF	20%	16V
C1467	1-119-824-11	ELECT	10uF	20%	50V
C1468	1-119-824-11	ELECT	10uF	20%	50V
C1469	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1470	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1471	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1472	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1473	1-165-319-11	CERAMIC CHIP	0.1uF		50V (AEP)
C1474	1-128-840-11	ELECT	47uF	20%	16V (AEP)
C1475	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1476	1-165-319-11	CERAMIC CHIP	0.1uF		50V (AEP)
C1477	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (AEP)
C1478	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1479	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V (AEP)
C1481	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (AEP)
C1482	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1483	1-128-834-11	ELECT	470uF	20%	10V
C1484	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (TW, KR)
C1485	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V (TW, KR)
C1486	1-119-827-11	ELECT	47uF	20%	50V
C1487	1-119-827-11	ELECT	47uF	20%	50V
C1489	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1490	1-119-824-11	ELECT	10uF	20%	50V
C1491	1-119-799-11	ELECT	47uF	20%	25V
C1492	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1493	1-119-799-11	ELECT	47uF	20%	25V
C1494	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1495	1-119-824-11	ELECT	10uF	20%	50V
C1497	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1498	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C1499	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1500	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

< CONNECTOR >

Ref. No.	Part No.	Description
CN1301	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P
CN1302	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P
CN1303	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P
CN1306	1-784-922-11	PIN, CONNECTOR 5P
CN1307	1-784-788-11	CONNECTOR, FFC 27P (TW, KR)
CN1308	1-779-977-11	PIN, CONNECTOR 6P (TW, KR)
CN1309	1-784-921-11	PIN, CONNECTOR 4P

< TRIMMER >

Ref. No.	Part No.	Description	Remark
CT1301	1-141-337-11	CAP, TRIMMER	(TW, KR)
CT1302	1-141-337-11	CAP, TRIMMER	(AEP)
CT1303	1-141-337-11	CAP, TRIMMER	(AEP)
CT1304	1-141-337-11	CAP, TRIMMER	

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D1301	8-719-016-74	DIODE 1SS352	
D1302	8-719-016-74	DIODE 1SS352	
D1303	8-719-016-74	DIODE 1SS352	
D1305	8-719-016-74	DIODE 1SS352	
D1306	8-719-016-74	DIODE 1SS352	
D1307	8-719-016-74	DIODE 1SS352	
D1308	8-719-016-74	DIODE 1SS352	
D1309	8-719-016-74	DIODE 1SS352	
D1310	8-719-016-74	DIODE 1SS352	
D1311	8-719-016-74	DIODE 1SS352	
D1312	8-719-016-74	DIODE 1SS352	
D1315	8-719-016-74	DIODE 1SS352	
D1316	8-719-016-74	DIODE 1SS352	
D1317	8-719-016-74	DIODE 1SS352	
D1318	8-719-016-74	DIODE 1SS352	
		< FERRITE BEAD >	
FB1301	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1303	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1304	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1305	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1306	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB1307	1-469-152-11	FERRITE, EMI (SMD) (2012) (AEP)	
FB1308	1-469-152-11	FERRITE, EMI (SMD) (2012) (AEP)	
		< FILTER >	
FL1301	1-239-847-11	FILTER, LOW PASS	
FL1302	1-239-847-11	FILTER, LOW PASS	
		< IC >	
IC1301	8-759-238-47	IC TC74HCT7007AF (EL)	
IC1302	6-702-387-01	IC CXD9725M	
IC1303	8-759-711-85	IC NJM4580E-D	
IC1304	8-759-238-47	IC TC74HCT7007AF (EL)	
IC1305	6-702-387-01	IC CXD9725M	
IC1306	8-759-711-85	IC NJM4580E-D	
IC1307	6-702-387-01	IC CXD9725M	
IC1308	8-759-711-85	IC NJM4580E-D	
IC1313	6-702-387-01	IC CXD9725M	
IC1314	8-759-711-85	IC NJM4580E-D	
IC1315	8-759-711-85	IC NJM4580E-D	
IC1317	8-759-701-59	IC NJM78M09FA	
IC1318	8-759-565-20	IC TDA4665T/V5-118 (AEP)	
IC1319	8-759-663-94	IC LA7106M-TLM	
IC1320	8-752-109-74	IC CXA2199Q	
IC1321	8-759-177-02	IC NJM2267M (TE2)	
IC1322	8-759-671-94	IC MC74HC4053AFEL	
IC1323	8-752-386-17	IC CXD2064Q	
IC1324	8-759-671-94	IC MC74HC4053AFEL	
IC1325	8-759-822-05	IC LA7213	
IC1326	8-759-293-21	IC NJM2268M	
IC1327	8-759-671-94	IC MC74HC4053AFEL	
IC1328	8-759-822-05	IC LA7213	
IC1329	6-700-367-01	IC MB90089PF-G-238-BND	
IC1330	8-759-233-44	IC TC74HC595AF	
IC1331	8-759-032-01	IC MC74HC00AF (AEP)	
IC1332	8-759-233-44	IC TC74HC595AF	
IC1333	8-759-242-70	IC TC7WU04F (AEP)	
IC1334	8-759-445-59	IC BA033T	
		< JACK >	
J1303	1-815-520-11	JACK, PIN 4P (PRE OUT SURR BACK, CENTER, SUB WOOFER)	
J1304	1-784-934-11	JACK, PIN 4P (PRE OUT FRONT, SURROUND)	
J1305	1-817-657-11	JACK, PIN 6P (COMPONENT VIDEO TV/SAT IN, MOTHER OUT)	
J1306	1-817-657-11	JACK, PIN 6P (COMPONENT VIDEO DVD/LD IN, VIDEO 1 IN)	
		< CAPACITOR >	
JW1301	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
JW1303	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< COIL >	
L1301	1-408-781-00	INDUCTOR 22uH	
		< TRANSISTOR >	
Q1301	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1303	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1305	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1306	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1307	8-729-140-97	TRANSISTOR 2SB734-34	
Q1308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1309	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1310	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1311	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1312	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1313	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1314	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1315	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1316	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1317	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1318	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1319	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1320	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1321	8-729-140-97	TRANSISTOR 2SB734-34	
Q1322	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1326	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		< RESISTOR >	
R1285	1-208-449-41	RES-CHIP 3.3K 2% 1/10W	
R1286	1-208-449-41	RES-CHIP 3.3K 2% 1/10W	
R1287	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1288	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1289	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1290	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1291	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R1292	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1293	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R1294	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R1295	1-260-011-11	CARBON MELF 18K 2% 1/8W	
R1296	1-259-999-11	CARBON MELF 2.2K 2% 1/8W	

COMPONENT

Ref. No.	Part No.	Description			Remark	
R1297	1-260-011-11	CARBON MELF	18K	2%	1/8W	
R1298	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	
R1299	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1301	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1302	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1303	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1304	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1305	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1306	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1307	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1308	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1309	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1310	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1311	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1312	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1313	1-216-627-11	METAL CHIP	100	0.5%	1/10W	
R1314	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1315	1-208-453-41	RES-CHIP	4.7K	2%	1/10W	
R1316	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1317	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1318	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1319	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1320	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1321	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
⚠R1322	1-249-393-11	CARBON	10	5%	1/4W	F
R1323	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
R1324	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1325	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1326	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1327	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1328	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1329	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1330	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1331	1-208-453-41	RES-CHIP	4.7K	2%	1/10W	
R1332	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1333	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1334	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1335	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1336	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1337	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1338	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1339	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
R1340	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1341	1-259-987-11	CARBON MELF	220	2%	1/8W	
⚠R1342	1-249-393-11	CARBON	10	5%	1/4W	F
R1343	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1344	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
R1345	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1346	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1347	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1348	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1349	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1350	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1351	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1352	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1353	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1354	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1355	1-208-453-41	RES-CHIP	4.7K	2%	1/10W	
R1356	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1357	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1358	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1359	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1360	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1361	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
⚠R1362	1-249-393-11	CARBON	10	5%	1/4W	F
R1363	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
R1364	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1365	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1366	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1367	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1368	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1369	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1370	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1371	1-208-453-41	RES-CHIP	4.7K	2%	1/10W	
R1372	1-208-453-41	RES-CHIP	4.7K	2%	1/10W	
R1373	1-260-011-11	CARBON MELF	18K	2%	1/8W	
R1374	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1375	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1376	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1377	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1378	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1379	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1380	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1381	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
⚠R1382	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R1383	1-249-393-11	CARBON	10	5%	1/4W	F
R1384	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
R1385	1-259-977-11	CARBON MELF	33	2%	1/8W	
R1386	1-259-987-11	CARBON MELF	220	2%	1/8W	
R1387	1-259-983-11	CARBON MELF	100	2%	1/8W	
R1388	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1389	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1390	1-208-437-41	RES-CHIP	1K	2%	1/10W	
R1391	1-260-011-11	CARBON MELF	18K	2%	1/8W	
R1392	1-260-020-11	CARBON MELF	100K	2%	1/8W	
R1393	1-208-558-41	RES-CHIP	1M	2%	1/10W	
R1394	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	
R1395	1-208-776-11	METAL CHIP	560	0.5%	1/10W	
R1396	1-208-824-11	METAL CHIP	56K	0.5%	1/10W	
R1397	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1398	1-208-445-41	RES-CHIP	2.2K	2%	1/10W	
R1399	1-208-774-11	METAL CHIP	470	0.5%	1/10W (AEP)	
R1400	1-208-810-11	METAL CHIP	15K	0.5%	1/10W	
R1401	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	
R1402	1-208-755-11	METAL CHIP	75	0.5%	1/10W	
R1403	1-208-462-41	RES-CHIP	10K	2%	1/10W	
R1404	1-208-755-11	METAL CHIP	75	0.5%	1/10W	
R1405	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	
R1406	1-208-755-11	METAL CHIP	75	0.5%	1/10W	
R1407	1-208-425-41	RES-CHIP	330	2%	1/10W	
R1408	1-208-518-41	RES-CHIP	22K	2%	1/10W	
R1409	1-208-518-41	RES-CHIP	22K	2%	1/10W	
R1410	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W	
R1411	1-208-558-41	RES-CHIP	1M	2%	1/10W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R1412	1-218-764-11	METAL CHIP	330K	0.5%	1/10W
R1413	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R1414	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1415	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R1416	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R1417	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1418	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1419	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1420	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1421	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1422	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R1423	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1424	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1425	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1426	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R1427	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1428	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R1429	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R1430	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R1431	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R1432	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1433	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1434	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1435	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1436	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R1437	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R1438	1-208-518-41	RES-CHIP	22K	2%	1/10W
R1439	1-208-558-41	RES-CHIP	1M	2%	1/10W
R1440	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R1441	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R1442	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1443	1-208-425-41	RES-CHIP	330	2%	1/10W
R1444	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R1445	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R1446	1-208-518-41	RES-CHIP	22K	2%	1/10W
R1447	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R1448	1-208-518-41	RES-CHIP	22K	2%	1/10W
R1449	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1450	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1451	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1452	1-208-425-41	RES-CHIP	330	2%	1/10W
R1453	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1454	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R1455	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1456	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1457	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1458	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1459	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1460	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1461	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1462	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R1463	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1464	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1465	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R1466	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1467	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1468	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R1469	1-216-627-11	METAL CHIP	100	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
					(AEP)
R1470	1-208-768-11	METAL CHIP	270	0.5%	1/10W (TW, KR)
R1471	1-216-627-11	METAL CHIP	100	0.5%	1/10W (AEP)
R1472	1-216-627-11	METAL CHIP	100	0.5%	1/10W (AEP)
R1473	1-208-854-11	METAL CHIP	1M	0.5%	1/10W (AEP)
R1474	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1475	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1476	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1477	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1478	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1479	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1480	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1481	1-208-526-41	RES-CHIP	47K	2%	1/10W
R1482	1-208-854-11	METAL CHIP	1M	0.5%	1/10W (AEP)
R1483	1-208-768-11	METAL CHIP	270	0.5%	1/10W (AEP)
R1484	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1485	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R1486	1-208-768-11	METAL CHIP	270	0.5%	1/10W (AEP)
R1487	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1488	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1494	1-216-295-00	SHORT CHIP	0		
R1495	1-216-295-00	SHORT CHIP	0		
R1496	1-216-295-00	SHORT CHIP	0		
R1497	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1498	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1499	1-208-774-11	METAL CHIP	470	0.5%	1/10W
		< RELAY >			
RY1301	1-755-294-11	RELAY			
RY1302	1-755-294-11	RELAY			
RY1303	1-755-294-11	RELAY			
RY1304	1-755-294-11	RELAY			
RY1305	1-755-294-11	RELAY			
RY1306	1-755-184-11	RELAY			
RY1307	1-755-184-11	RELAY			
RY1308	1-755-184-11	RELAY			
RY1309	1-755-184-11	RELAY			
RY1310	1-755-184-11	RELAY			
RY1311	1-755-184-11	RELAY			
RY1312	1-755-184-11	RELAY			
RY1313	1-755-184-11	RELAY			
		< VIBRATOR >			
X1301	1-781-342-21	OSCILLATOR, CRYSTAL (3.5795MHz)			
X1302	1-781-134-21	VIBRATOR, CRYSTAL (4.43MHz) (AEP)			
X1303	1-577-611-11	OSCILALTOR, CERAMIC (500kHz)			
X1304	1-781-821-21	VIBRATOR, CRYSTAL (14.31818MHz) (AEP)			
X1305	1-781-820-21	VIBRATOR, CRYSTAL (17.734475MHz) (AEP)			
X1306	1-781-821-21	VIBRATOR, CRYSTAL (14.31818MHz)			(TW, KR)

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CSP DC DIGITAL

Ref. No.	Part No.	Description				Remark
	A-4733-832-A	CSP BOARD, COMPLETE				
		********************				
		< CAPACITOR >				
C622	1-100-154-11	CERAMIC CHIP	330PF	5%	100V	
C623	1-100-154-11	CERAMIC CHIP	330PF	5%	100V	
C643	1-100-154-11	CERAMIC CHIP	330PF	5%	100V	
C644	1-100-154-11	CERAMIC CHIP	330PF	5%	100V	
C646	1-100-154-11	CERAMIC CHIP	330PF	5%	100V	
C647	1-100-154-11	CERAMIC CHIP	330PF	5%	100V	
		< CONNECTOR >				
CN606	1-785-104-11	PIN, CONNECTOR (3.96mm PITCH) 6P				
		< COIL >				
L621	1-456-594-11	INDUCTOR	33uH			
L641	1-456-594-11	INDUCTOR	33uH			
L642	1-456-594-11	INDUCTOR	33uH			
		< TERMINAL >				
TM603	1-780-031-11	TERMINAL BOARD (SP) (4P) (SPEAKERS CENTER, SURROUND BACK R)				
TM604	1-780-030-11	TERMINAL BOARD (SP) (2P) (SPEAKERS SURROUND BACK L)				
**						
	A-4733-828-A	DC BOARD, COMPLETE				
		******************				
	1-533-217-41	HOLDER, FUSE				
*	3-346-266-21	PLATE, GROUND				
	3-905-609-11	SCREW (TRANSISTOR)				
	4-383-023-01	SHEET, MICA				
*	4-931-964-01	SCREW (M4)				
*	4-941-237-01	HEAT SINK				
	4-974-510-11	SCREW (+BV 3X8 CU)				
		< CAPACITOR >				
C834	1-130-777-00	MYLAR	0.1uF	5%	100V	
C836	1-130-777-00	MYLAR	0.1uF	5%	100V	
C837	1-100-598-11	MYLAR	1uF	5%	250V	
C839	1-100-600-11	ELECT (BLOCK)	12000uF	20%	100V	
C842	1-130-777-00	MYLAR	0.1uF	5%	100V	
C844	1-119-832-21	ELECT	1000uF	20%	50V	
C845	1-135-780-51	ELECT	1000uF		35V	
C847	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C849	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C850	1-119-806-21	ELECT	3300uF	20%	25V	
C851	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C852	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C855	1-119-806-21	ELECT	3300uF	20%	25V	
C864	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C865	1-119-806-21	ELECT	3300uF	20%	25V	
C866	1-119-820-11	ELECT	1uF	20%	50V	
C867	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
		< CONNECTOR >				
* CN817	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P				

Ref. No.	Part No.	Description				Remark
CN821	1-691-769-11	PLUG (MICRO CONNECTOR) 7P				
CN828	1-691-769-21	PLUG (MICRO CONNECTOR) 7P				
		< DIODE >				
D819	6-500-661-01	DIODE	KCH30A20			
D820	6-500-661-01	DIODE	KCH30A20			
D821	8-719-016-74	DIODE	1SS352			
D822	8-719-053-18	DIODE	1SR154-400TE-25			
D823	8-719-053-18	DIODE	1SR154-400TE-25			
D824	8-719-053-18	DIODE	1SR154-400TE-25			
D825	8-719-053-18	DIODE	1SR154-400TE-25			
D826	8-719-053-18	DIODE	1SR154-400TE-25			
D827	8-719-053-18	DIODE	1SR154-400TE-25			
D828	8-719-053-18	DIODE	1SR154-400TE-25			
D829	8-719-053-18	DIODE	1SR154-400TE-25			
D830	8-719-053-18	DIODE	1SR154-400TE-25			
D831	8-719-053-18	DIODE	1SR154-400TE-25			
D832	8-719-053-18	DIODE	1SR154-400TE-25			
D833	8-719-053-18	DIODE	1SR154-400TE-25			
D834	8-719-053-18	DIODE	1SR154-400TE-25			
		< EARTH TERMINAL >				
* EP805	1-537-738-21	TERMINAL, EARTH				
* EP806	1-537-738-21	TERMINAL, EARTH				
		< IC >				
IC815	8-759-605-03	IC	M5F78M24L			
		< TRANSISTOR >				
Q831	8-729-271-31	TRANSISTOR	2SC2713-G			
		< RESISTOR >				
⚠R835	1-215-866-11	METAL OXIDE	330	5%	1W	F
R880	1-208-518-41	RES-CHIP	22K	2%	1/10W	
R881	1-208-526-41	RES-CHIP	47K	2%	1/10W	
R882	1-208-462-41	RES-CHIP	10K	2%	1/10W	
		< RELAY >				
RY1001	1-515-999-11	RELAY, POWER				
**						
	A-4733-841-A	DIGITAL BOARD, COMPLETE (TW, KR)				
	A-4733-862-A	DIGITAL BOARD, COMPLETE (AEP)				
		**********************				
		< CAPACITOR >				
C2001	1-119-824-31	ELECT	10uF	20%	50V	
C2002	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C2003	1-119-824-31	ELECT	10uF	20%	50V	
C2004	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C2005	1-119-821-31	ELECT	2.2uF	20%	50V	
C2006	1-119-821-31	ELECT	2.2uF	20%	50V	
C2007	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C2008	1-119-823-11	ELECT	4.7uF	20%	50V	
C2009	1-119-824-31	ELECT	10uF	20%	50V	
C2010	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C2011	1-165-319-11	CERAMIC CHIP	0.1uF		50V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C2012	1-119-824-31	ELECT	10uF	20%	50V
C2013	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2014	1-119-824-31	ELECT	10uF	20%	50V
C2015	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2016	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2017	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2018	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2019	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2020	1-119-824-31	ELECT	10uF	20%	50V
C2021	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2022	1-119-824-31	ELECT	10uF	20%	50V
C2023	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2024	1-119-824-31	ELECT	10uF	20%	50V
C2025	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2026	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2027	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2028	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2029	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2030	1-119-824-31	ELECT	10uF	20%	50V
C2031	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2032	1-119-824-31	ELECT	10uF	20%	50V
C2033	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2034	1-119-824-31	ELECT	10uF	20%	50V
C2035	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2036	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2037	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2038	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2039	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2040	1-119-824-31	ELECT	10uF	20%	50V
C2041	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2042	1-119-824-31	ELECT	10uF	20%	50V
C2043	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2044	1-119-824-31	ELECT	10uF	20%	50V
C2045	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2046	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2047	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2048	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2049	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2050	1-119-824-31	ELECT	10uF	20%	50V
C2051	1-119-824-31	ELECT	10uF	20%	50V
C2052	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2053	1-119-824-31	ELECT	10uF	20%	50V
C2054	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2055	1-119-824-31	ELECT	10uF	20%	50V
C2056	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2057	1-119-824-31	ELECT	10uF	20%	50V
C2058	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2059	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2060	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2061	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2062	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2063	1-119-800-11	ELECT	100uF	20%	25V
C2066	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2067	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2068	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2069	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2070	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2071	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C2081	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2082	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2083	1-119-792-21	ELECT	470uF	20%	16V
C2084	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2085	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2086	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2087	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2088	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2089	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2090	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2091	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2092	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2093	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2094	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2095	1-119-799-11	ELECT	47uF	20%	25V
C2097	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2098	1-119-799-11	ELECT	47uF	20%	25V
C2100	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2101	1-119-799-11	ELECT	47uF	20%	25V
C2103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2107	1-119-799-11	ELECT	47uF	20%	25V
C2108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2109	1-119-799-11	ELECT	47uF	20%	25V
C2111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2112	1-119-792-21	ELECT	470uF	20%	16V
C2115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2116	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2121	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2122	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2129	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2130	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2131	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2132	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2133	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2134	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2135	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C2136	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2137	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2138	1-119-800-11	ELECT	100uF	20%	25V
C2139	1-119-824-31	ELECT	10uF	20%	50V
C2140	1-119-779-11	ELECT	220uF	20%	10V
C2141	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2142	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2143	1-119-780-11	ELECT	330uF	20%	10V
C2161	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2162	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2163	1-119-792-21	ELECT	470uF	20%	16V
C2164	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2165	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2166	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2167	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2168	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2169	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2171	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2172	1-165-319-11	CERAMIC CHIP	0.1uF		50V

DIGITAL

Ref. No.	Part No.	Description			Remark
C2173	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2174	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2175	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2176	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2177	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2178	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2180	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2181	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2182	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2183	1-119-792-21	ELECT	470uF	20%	16V
C2201	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2202	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2203	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2204	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2205	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2206	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2207	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2208	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2209	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C2210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2212	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2213	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2214	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2215	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2216	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2217	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2218	1-119-824-31	ELECT	10uF	20%	50V
C2219	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2220	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2221	1-119-780-11	ELECT	330uF	20%	10V
C2222	1-119-792-21	ELECT	470uF	20%	16V
C2223	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2224	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2225	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2226	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2227	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2228	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2229	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2251	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2252	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2253	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2254	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2255	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2256	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2257	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2258	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2259	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2260	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2261	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2262	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2263	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2264	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2265	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2266	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2267	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2268	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2269	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2270	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2271	1-119-780-11	ELECT	330uF	20%	10V
C2272	1-119-792-21	ELECT	470uF	20%	16V
C2274	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2305	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2306	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2307	1-119-800-11	ELECT	100uF	20%	25V
C2308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2310	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2312	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2314	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2315	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2316	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2317	1-119-824-31	ELECT	10uF	20%	50V
C2318	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2319	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2320	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2321	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2322	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2323	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2324	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2325	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2326	1-119-824-31	ELECT	10uF	20%	50V
C2327	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2328	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2329	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2330	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2331	1-119-824-31	ELECT	10uF	20%	50V
C2401	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2402	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2403	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2404	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2405	1-119-800-11	ELECT	100uF	20%	25V
C2406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2426	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2427	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2428	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2429	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2430	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2431	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2433	1-119-800-11	ELECT	100uF	20%	25V
C2434	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2435	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2451	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2452	1-119-824-11	ELECT	10uF	20%	50V
C2453	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2454	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2461	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
C2462	1-119-824-11	ELECT	10uF	20%	50V
C2463	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2464	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2501	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2502	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2503	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2504	1-119-824-31	ELECT	10uF	20%	50V
C2505	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2506	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2507	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2508	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2509	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2510	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2511	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2512	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2513	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2514	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2515	1-119-824-31	ELECT	10uF	20%	50V
C2517	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2523	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2524	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2525	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2526	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2527	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2529	1-119-824-31	ELECT	10uF	20%	50V
C2601	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2602	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2603	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2604	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2605	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2606	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2607	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2608	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2609	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2610	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2611	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2613	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2614	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2615	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2616	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2617	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2618	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2619	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2620	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2621	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2622	1-128-840-11	ELECT	47uF	20%	16V
C2623	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2624	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2625	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2626	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2627	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2628	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2629	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2630	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2631	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2632	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2633	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2634	1-119-820-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C2635	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2636	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2637	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2701	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2702	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2703	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2704	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2705	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2706	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2707	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2708	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2709	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C2710	1-119-824-11	ELECT	10uF	20%	50V
C2711	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2712	1-128-840-11	ELECT	47uF	20%	16V
C2801	1-128-834-11	ELECT	470uF	20%	10V
C2802	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2901	1-119-800-11	ELECT	100uF	20%	25V
C2902	1-119-800-11	ELECT	100uF	20%	25V
C2903	1-119-824-31	ELECT	10uF	20%	50V
C2905	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2906	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2907	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2908	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2909	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2910	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2911	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2912	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

< CONNECTOR >

Ref. No.	Part No.	Description
CN2001	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P
CN2002	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P
CN2003	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P
CN2004	1-770-410-11	CONNECTOR, BOARD TO BOARD 18P
CN2005	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P
CN2006	1-794-003-11	CONNECTOR 15P
CN2007	1-794-006-11	CONNECTOR 20P
CN2008	1-794-004-11	CONNECTOR 17P

< DIODE >

Ref. No.	Part No.	Description	
D2081	8-719-053-18	DIODE	1SR154-400TE-25
D2121	8-719-988-61	DIODE	1SS355TE-17
D2122	8-719-988-61	DIODE	1SS355TE-17
D2201	8-719-988-61	DIODE	1SS355TE-17
D2301	8-719-801-78	DIODE	1SS184
D2601	8-719-801-78	DIODE	1SS184
D2602	8-719-988-61	DIODE	1SS355TE-17
D2603	8-719-801-78	DIODE	1SS184
D2701	8-719-801-78	DIODE	1SS184

< FERRITE BEAD/SHORT >

Ref. No.	Part No.	Description
FB2001	1-469-152-11	FERRITE, EMI (SMD) (2012)
FB2002	1-469-152-11	FERRITE, EMI (SMD) (2012)
FB2003	1-469-139-21	FERRITE, EMI (SMD) (2012)
FB2004	1-469-152-11	FERRITE, EMI (SMD) (2012)
FB2061	1-469-152-11	FERRITE, EMI (SMD) (2012)
FB2081	1-469-152-11	FERRITE, EMI (SMD) (2012)

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Ref. No.	Part No.	Description	Remark
FB2082	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2123	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2124	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2125	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2161	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2162	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2201	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2202	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2252	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2301	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2302	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2303	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2304	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2305	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2306	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2307	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2309	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB2310	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2401	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2426	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2451	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2461	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2501	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2502	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2503	1-414-813-11	FERRITE, EMI (SMD) (2012)	
FB2504	1-216-295-00	SHORT CHIP 0	
FB2511	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2601	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2701	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2901	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB2902	1-469-152-11	FERRITE, EMI (SMD) (2012)	

< IC >

Ref. No.	Part No.	Description	Remark
IC2001	6-701-834-01	IC PCM1802DBR	
IC2011	6-704-013-01	IC DSD1800DBR	
IC2021	6-704-013-01	IC DSD1800DBR	
IC2031	6-704-013-01	IC DSD1800DBR	
IC2041	6-704-013-01	IC DSD1800DBR	
IC2051	8-759-447-77	IC TC7WH74FU (TE12R)	
IC2052	8-759-524-09	IC TC74VHC153FT (EL)	
IC2063	8-759-524-10	IC TC74VHC157FT (EL)	
IC2064	8-759-524-10	IC TC74VHC157FT (EL)	
IC2081	6-600-012-11	IC TOTX141L (RED) (DIGITAL OPTICAL VIDEO 1 OUT)	
IC2082	6-600-014-01	IC TORX141L (DIGITAL OPTICAL VIDEO 1 IN)	
IC2083	6-600-012-11	IC TOTX141L (RED) (DIGITAL OPTICAL MD/DAT OUT)	
IC2084	6-600-014-01	IC TORX141L (DIGITAL OPTICAL LD IN)	
IC2085	6-600-014-01	IC TORX141L (DIGITAL OPTICAL DVD IN)	
IC2086	6-600-014-01	IC TORX141L (DIGITAL OPTICAL TV/SAT IN)	
IC2087	6-600-014-01	IC TORX141L (DIGITAL OPTICAL MD/DAT IN)	
IC2088	6-600-014-01	IC TORX141L (DIGITAL OPTICAL CD/SACD IN)	
IC2089	8-759-058-62	IC TC7S08FU (TE85R)	
IC2090	8-759-058-62	IC TC7S08FU (TE85R)	
IC2091	8-759-233-64	IC TC74HCU04AF	
IC2092	8-759-233-64	IC TC74HCU04AF	
IC2093	8-759-236-19	IC TC74HC151AF (EL)	
IC2095	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2121	6-702-008-01	IC LC89057W-VF4-E	
IC2161	6-703-372-01	IC CXD9742Q	
IC2162	8-759-196-96	IC TC7SH08FU-TE85R	
IC2163	6-703-372-01	IC CXD9742Q	
IC2164	8-759-196-96	IC TC7SH08FU-TE85R	
IC2165	8-759-835-63	IC NJM2391DL1-26 (TE1)	
IC2201	6-702-047-01	IC CXD9718Q	
IC2203	8-759-196-96	IC TC7SH08FU-TE85R	
IC2204	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2205	8-759-926-17	IC SN74HC153ANS	
IC2206	8-759-835-63	IC NJM2391DL1-26 (TE1)	
IC2207	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2208	8-759-926-17	IC SN74HC153ANS	
IC2209	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2210	8-759-524-48	IC TC74VHC393FT (EL)	
IC2211	8-759-058-54	IC TC7S00FU (TE85R)	
IC2251	6-704-421-01	IC CXD9782R	
IC2252	6-704-037-01	IC IC61LV6416-15TG	
IC2253	6-704-037-01	IC IC61LV6416-15TG	
IC2254	8-759-196-96	IC TC7SH08FU-TE85R	
IC2255	8-759-835-63	IC NJM2391DL1-26 (TE1)	
IC2301	6-702-288-01	IC CXD9722TQ	
IC2302	(Not supplied)	IC MSM56V16160F-10T4FM1	
IC2303	8-759-196-96	IC TC7SH08FU-TE85R	
IC2304	8-759-096-87	IC TC7WU04FU (TE12R)	
IC2305	8-759-447-77	IC TC7WH74FU (TE12R)	
IC2306	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2307	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2308	8-759-196-96	IC TC7SH08FU-TE85R	
IC2401	6-704-741-01	IC CXD9776AQ	
IC2402	8-759-196-96	IC TC7SH08FU-TE85R	
IC2426	6-803-008-01	IC ISPLSI2032VE-110LTN44-MOD	
IC2427	8-759-392-01	IC TC7SH86FU-TE85R	
IC2428	8-759-491-46	IC TC74VHCT04AFT (EL)	
IC2429	8-759-523-95	IC TC74VHC74FT (EL)	
IC2430	8-759-447-77	IC TC7WH74FU (TE12R)	
IC2451	8-759-233-44	IC TC74HC595AF	
IC2461	8-759-233-44	IC TC74HC595AF	
IC2462	8-759-233-44	IC TC74HC595AF	
IC2501	8-759-524-50	IC TC74VHC541FT (EL)	
IC2503	8-759-008-37	IC MC74HC4050F	
IC2504	8-759-524-50	IC TC74VHC541FT (EL)	
IC2506	8-759-008-37	IC MC74HC4050F	
IC2511	8-759-523-81	IC TC74VHC08FT (EL)	
IC2512	8-759-447-77	IC TC7WH74FU (TE12R)	
IC2601	6-802-971-02	IC MB91F155-A9ES-X105	
IC2602	8-759-546-74	IC TC7WH157FU (TE12R)	
IC2603	8-759-641-86	IC BR24C16F-E2	
IC2604	8-759-277-63	IC TC7W14FU (TE12R)	
IC2605	8-759-058-62	IC TC7S08FU (TE85R)	
IC2701	8-759-666-99	IC TMP87CH447U-1F23	
IC2702	8-759-008-37	IC MC74HC4050F	
IC2703	8-759-008-37	IC MC74HC4050F	
IC2704	8-759-238-47	IC TC74HCT7007AF (EL)	
IC2705	8-759-058-62	IC TC7S08FU (TE85R)	
IC2706	6-702-912-01	IC S-80942CNMC-G9CT2G	
IC2801	8-759-445-59	IC BA033T	

Ref. No.	Part No.	Description			Remark
IC2901	6-703-787-01	IC PCM1609KPTR			
		< JACK >			
J2080	1-784-432-11	JACK, PIN 1P (DIGITAL COAXIAL VIDEO 1 IN)			
J2081	1-817-958-11	JACK, PIN 2P (DIGITAL COAXIAL LD IN, DVD IN)			
J2082	1-817-958-11	JACK, PIN 2P (DIGITAL COAXIAL TV/SAT IN, CD/SACD IN)			
		< SHORT >			
JW2801	1-216-295-00	SHORT CHIP	0		
		< TRANSISTOR >			
Q2122	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q2123	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q2302	8-729-216-22	TRANSISTOR	2SA1162-G		
Q2303	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q2601	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q2602	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q2603	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q2701	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q2702	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q2703	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R2001	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2002	1-216-295-00	SHORT CHIP	0		
R2003	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2004	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2005	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2008	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2009	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2010	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2011	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2018	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2021	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2028	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2031	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2038	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2041	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2048	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2051	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2052	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2053	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2054	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2055	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2056	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2057	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2058	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2059	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2060	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2061	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2062	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2063	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2065	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2067	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2069	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2071	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2073	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2074	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2075	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2078	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2079	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2080	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2081	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2082	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2083	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2084	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2085	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2086	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2087	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2088	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2089	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2090	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2091	1-259-991-11	CARBON MELF	470	2%	1/8W
R2092	1-259-909-11	CARBON MELF	75	2%	1/8W
R2093	1-260-028-11	CARBON MELF	470K	2%	1/8W
R2094	1-260-016-11	CARBON MELF	47K	2%	1/8W
R2095	1-259-991-11	CARBON MELF	470	2%	1/8W
R2096	1-259-909-11	CARBON MELF	75	2%	1/8W
R2097	1-260-028-11	CARBON MELF	470K	2%	1/8W
R2098	1-260-016-11	CARBON MELF	47K	2%	1/8W
R2099	1-259-991-11	CARBON MELF	470	2%	1/8W
R2100	1-259-909-11	CARBON MELF	75	2%	1/8W
R2101	1-260-028-11	CARBON MELF	470K	2%	1/8W
R2102	1-260-016-11	CARBON MELF	47K	2%	1/8W
R2103	1-259-991-11	CARBON MELF	470	2%	1/8W
R2104	1-259-909-11	CARBON MELF	75	2%	1/8W
R2105	1-260-028-11	CARBON MELF	470K	2%	1/8W
R2106	1-260-016-11	CARBON MELF	47K	2%	1/8W
R2107	1-259-991-11	CARBON MELF	470	2%	1/8W
R2108	1-259-909-11	CARBON MELF	75	2%	1/8W
R2109	1-260-028-11	CARBON MELF	470K	2%	1/8W
R2110	1-260-016-11	CARBON MELF	47K	2%	1/8W
R2112	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2113	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2114	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2115	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2116	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2117	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2118	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2119	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2120	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2121	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2122	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R2123	1-208-558-41	RES-CHIP	1M	2%	1/10W
R2125	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2126	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2127	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2128	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2130	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2131	1-208-558-41	RES-CHIP	1M	2%	1/10W
R2132	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2133	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2134	1-216-627-11	METAL CHIP	100	0.5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remark
R2135	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2136	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2137	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2138	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2139	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2140	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2141	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2142	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R2143	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2144	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2145	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2146	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2147	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2148	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2149	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2150	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2151	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2152	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2153	1-216-295-00	SHORT CHIP	0		
R2154	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R2161	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2162	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2163	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2164	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2165	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2166	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2167	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2168	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2171	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2172	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2177	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2178	1-216-295-00	SHORT CHIP	0		
R2179	1-216-295-00	SHORT CHIP	0		
R2180	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2182	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R2185	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2186	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2187	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2188	1-216-295-00	SHORT CHIP	0		
R2189	1-216-295-00	SHORT CHIP	0		
R2192	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2194	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R2195	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2201	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2202	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2203	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2204	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R2205	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2206	1-216-295-00	SHORT CHIP	0		
R2207	1-216-295-00	SHORT CHIP	0		
R2208	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2209	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2210	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2211	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2212	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2213	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2214	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2215	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2216	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2217	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2218	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2219	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2220	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2221	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2222	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2223	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2224	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2225	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2226	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2227	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2228	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2229	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2230	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2231	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2232	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2233	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2234	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2235	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2236	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2237	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2238	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2239	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2240	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2241	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2242	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2243	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2244	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2245	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2246	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2247	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2248	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2249	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2250	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2251	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2252	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2253	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2254	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2255	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2256	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2257	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2258	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2259	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2260	1-216-295-00	SHORT CHIP	0		
R2261	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2262	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2263	1-216-295-00	SHORT CHIP	0		
R2264	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2265	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2266	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2267	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2268	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2269	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2270	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2271	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2272	1-216-627-11	METAL CHIP	100	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R2273	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2274	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2275	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2276	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2277	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2278	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2279	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2280	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2281	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2282	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2283	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2284	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2285	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2286	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2287	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2288	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2289	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2290	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2291	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2292	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2293	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2294	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2295	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2296	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2297	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2298	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2299	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2300	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2301	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2302	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2303	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2304	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2305	1-216-295-00	SHORT CHIP	0		
R2306	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2307	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2308	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2309	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2310	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2311	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2312	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2313	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2314	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2315	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2321	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2322	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2324	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2325	1-216-295-00	SHORT CHIP	0		
R2326	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2327	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2328	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2329	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2330	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2331	1-216-295-00	SHORT CHIP	0		
R2332	1-216-295-00	SHORT CHIP	0		
R2333	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2334	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2335	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2336	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2337	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2338	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2339	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2340	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2341	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2342	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2343	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2344	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2345	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2346	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2347	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2348	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2349	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2351	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2352	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2353	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2354	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2360	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2361	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2362	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2363	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2364	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2365	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2401	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2402	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2403	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2404	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2405	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2406	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2407	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R2408	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2409	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2410	1-216-295-00	SHORT CHIP	0		
R2411	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2412	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2413	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2414	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2415	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2416	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2417	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2422	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2426	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2427	1-216-295-00	SHORT CHIP	0		
R2428	1-216-295-00	SHORT CHIP	0		
R2429	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2430	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2431	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2432	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2433	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2434	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2439	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2451	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2452	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2453	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2454	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2455	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2461	1-208-462-41	RES-CHIP	10K	2%	1/10W

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Ref. No.	Part No.	Description			Remark
R2462	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2463	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2464	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2465	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2466	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2501	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2502	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2503	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2504	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2505	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2506	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2507	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2508	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2509	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2510	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2511	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2512	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2513	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2514	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2515	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2522	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2523	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2524	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2525	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2526	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2527	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2528	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2529	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2530	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2531	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2532	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2541	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2542	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2543	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2544	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2545	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2548	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2549	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2550	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2551	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2552	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2553	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2554	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2555	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2557	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2559	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2561	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2563	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2564	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2565	1-216-295-00	SHORT CHIP	0		
R2566	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2567	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2601	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2602	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2603	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2604	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2605	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2606	1-208-462-41	RES-CHIP	10K	2%	1/10W

Ref. No.	Part No.	Description			Remark
R2607	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2608	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2609	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2610	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2611	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2612	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2613	1-208-453-41	RES-CHIP	4.7K	2%	1/10W (TW, KR)
R2613	1-208-518-41	RES-CHIP	22K	2%	1/10W (AEP)
R2614	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2615	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2616	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2617	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2618	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2619	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2620	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2621	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2622	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2623	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2624	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2625	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2626	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2627	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2628	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2629	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2630	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2631	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2632	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2633	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2634	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2635	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2636	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2637	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2638	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2639	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2640	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R2641	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R2642	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2643	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2644	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2645	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2646	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2647	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2648	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2649	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2650	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2651	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2652	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2653	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2654	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2655	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R2656	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R2657	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2658	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R2659	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2660	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2661	1-216-627-11	METAL CHIP	100	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R2662	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2663	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2664	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2665	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2666	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2667	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2668	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2669	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2670	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2671	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2672	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2673	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2674	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2675	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2676	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2677	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2678	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2679	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2680	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2681	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2701	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2702	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2703	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R2704	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2705	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2706	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2707	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R2708	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2709	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2710	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2711	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2712	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2713	1-208-558-41	RES-CHIP	1M	2%	1/10W
R2714	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2715	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2716	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2717	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2718	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2719	1-208-462-41	RES-CHIP	10K	2%	1/10W
R2801	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2802	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2803	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2804	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2805	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2806	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2807	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2808	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2809	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2810	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2811	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2812	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2813	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2815	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2816	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2817	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2819	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2820	1-216-627-11	METAL CHIP	100	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R2822	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2823	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2824	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2825	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2826	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2827	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2828	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2829	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2830	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2831	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2832	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2833	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2834	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2901	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2902	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R2903	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2904	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2905	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2906	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2916	1-216-295-00	SHORT CHIP	0		
R2917	1-208-526-41	RES-CHIP	47K	2%	1/10W
R2918	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2919	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2920	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2921	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2922	1-208-437-41	RES-CHIP	1K	2%	1/10W
R2931	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2932	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2933	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2934	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2935	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2936	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2937	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R2938	1-216-627-11	METAL CHIP	100	0.5%	1/10W

< VIBRATOR >

X2121	1-795-219-21	VIBRATOR, CRYSTAL (24.576MHz)
X2201	1-781-527-21	VIBRATOR, CRYSTAL (13.5MHz)
X2251	1-795-264-21	VIBRATOR, CERAMIC (13.5MHz)
X2301	1-767-286-11	VIBRATOR, CRYSTAL (22.5792MHz)
X2601	1-795-179-21	VIBRATOR, CERAMIC (16.5MHz)
X2701	1-767-938-21	VIBRATOR, CERAMIC (7.28MHz)

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A-4733-780-A DISP BOARD, COMPLETE
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2-389-320-01	CUSHION
4-246-106-01	HOLDER (FL)

< CAPACITOR >

C701	1-124-589-11	ELECT	47uF	20%	16V
C702	1-124-261-00	ELECT	10uF	20%	50V
C703	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C704	1-124-589-11	ELECT	47uF	20%	16V
C705	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C706	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C707	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C708	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V

DISP

Ref. No.	Part No.	Description	Remark
C712	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C713	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C714	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C718	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C722	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C723	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C724	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C725	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C734	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C735	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
		< CONNECTOR >	
* CNP704	1-564-520-11	PLUG, CONNECTOR 5P	
* CNP709	1-564-521-11	PLUG, CONNECTOR 6P	
CNS701	1-794-001-11	CONNECTOR 20P	
CNS702	1-793-999-11	CONNECTOR 17P	
* CNS703	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CNS704	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CNS705	1-568-741-11	SOCKET, CONNECTOR 23P	
CNS706	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CNS710	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< DIODE >	
D701	8-719-075-59	LED SELS5B23C-TP15 (Digital Cinema Sound)	
D702	8-719-075-59	LED SELS5B23C-TP15 (SB DEC)	
D718	8-719-070-83	LED SELU5E20C-TP15 (MULTI CHANNEL DECODING)	
D719	8-719-988-61	DIODE 1SS355TE-17	
D720	8-719-988-61	DIODE 1SS355TE-17	
D721	8-719-988-61	DIODE 1SS355TE-17	
D722	8-719-988-61	DIODE 1SS355TE-17	
D1017	8-719-046-39	LED SEL5821A-TP15 (VIDEO 1)	
D1018	8-719-046-39	LED SEL5821A-TP15 (VIDEO 2)	
D1019	8-719-046-39	LED SEL5821A-TP15 (VIDEO 3)	
D1020	8-719-046-39	LED SEL5821A-TP15 (VIDEO 4)	
D1021	8-719-046-39	LED SEL5821A-TP15 (VIDEO 5)	
D1022	8-719-046-39	LED SEL5821A-TP15 (LD)	
D1023	8-719-046-39	LED SEL5821A-TP15 (DVD)	
D1024	8-719-046-39	LED SEL5821A-TP15 (TV/SAT)	
D1025	8-719-046-39	LED SEL5821A-TP15 (TAPE)	
D1026	8-719-046-39	LED SEL5821A-TP15 (MD/DAT)	
D1027	8-719-046-39	LED SEL5821A-TP15 (CD/SACD)	
D1028	8-719-046-39	LED SEL5821A-TP15 (TUNER)	
D1029	8-719-046-39	LED SEL5821A-TP15 (PHONO)	
D1030	8-719-046-39	LED SEL5821A-TP15 (i. LINK)	
D1031	8-719-046-43	LED SEL5421E-TP15 (DIRECT)	
D1032	8-719-075-59	LED SELS5B23C-TP15 (NIGHT MODE)	
		< FLUORESCENT INDICATOR TUBE >	
FL701	1-518-906-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC701	8-759-459-85	IC NJL63H400A	
IC702	8-759-448-24	IC NJU3718G (TE2)	
IC703	8-759-448-24	IC NJU3718G (TE2)	
IC704	8-759-032-11	IC MC74HC04AF	
IC705	8-759-238-47	IC TC74HCT7007AF (EL)	
IC706	8-759-238-47	IC TC74HCT7007AF (EL)	
		< RESISTOR >	
R156	1-208-526-41	RES-CHIP 47K 2%	1/10W
R157	1-208-518-41	RES-CHIP 22K 2%	1/10W
R701	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R702	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R704	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R705	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R706	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R707	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R708	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R709	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R710	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R711	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R712	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R713	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R714	1-208-462-41	RES-CHIP 10K 2%	1/10W
R715	1-208-755-11	METAL CHIP 75 0.5%	1/10W
R716	1-208-425-41	RES-CHIP 330 2%	1/10W
R717	1-208-425-41	RES-CHIP 330 2%	1/10W
R718	1-216-603-11	METAL CHIP 10 0.5%	1/10W
⚠R719	1-249-382-11	CARBON 1.2 5%	1/4W F
⚠R720	1-249-382-11	CARBON 1.2 5%	1/4W F
R721	1-208-425-41	RES-CHIP 330 2%	1/10W
R722	1-208-425-41	RES-CHIP 330 2%	1/10W
R723	1-208-526-41	RES-CHIP 47K 2%	1/10W
R724	1-208-437-41	RES-CHIP 1K 2%	1/10W
R725	1-208-437-41	RES-CHIP 1K 2%	1/10W
R726	1-208-425-41	RES-CHIP 330 2%	1/10W
R735	1-208-526-41	RES-CHIP 47K 2%	1/10W
R736	1-208-526-41	RES-CHIP 47K 2%	1/10W
R737	1-216-685-11	METAL CHIP 27K 0.5%	1/10W
R738	1-216-685-11	METAL CHIP 27K 0.5%	1/10W
R739	1-216-685-11	METAL CHIP 27K 0.5%	1/10W
R740	1-216-685-11	METAL CHIP 27K 0.5%	1/10W
R741	1-208-526-41	RES-CHIP 47K 2%	1/10W
R742	1-208-526-41	RES-CHIP 47K 2%	1/10W
R748	1-208-425-41	RES-CHIP 330 2%	1/10W
R751	1-208-462-41	RES-CHIP 10K 2%	1/10W
R753	1-208-445-41	RES-CHIP 2.2K 2%	1/10W
R754	1-208-445-41	RES-CHIP 2.2K 2%	1/10W
R755	1-208-437-41	RES-CHIP 1K 2%	1/10W
R756	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R757	1-208-437-41	RES-CHIP 1K 2%	1/10W
R758	1-208-462-41	RES-CHIP 10K 2%	1/10W
R759	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R760	1-208-445-41	RES-CHIP 2.2K 2%	1/10W
R761	1-208-445-41	RES-CHIP 2.2K 2%	1/10W
R762	1-208-437-41	RES-CHIP 1K 2%	1/10W
		< ROTARY ENCODER>	
RV701	1-473-534-11	ENCODER, ROTARY (MAIN MENU)	
RV702	1-473-534-11	ENCODER, ROTARY (MENU)	
RV704	1-473-534-11	ENCODER, ROTARY (–/+)	
RV706	1-473-534-11	ENCODER, ROTARY (BASS)	
RV707	1-473-534-11	ENCODER, ROTARY (TREBRE)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

< SWITCH >

Ref. No.	Part No.	Description	Remark
S718	1-771-349-21	SWITCH, KEYBOARD (USER PRESET)	
S719	1-771-349-21	SWITCH, KEYBOARD (DISPLAY)	
S720	1-771-349-21	SWITCH, KEYBOARD (DECODE PRIORITY)	
S721	1-771-349-21	SWITCH, KEYBOARD (DIRECT)	
S722	1-771-349-21	SWITCH, KEYBOARD (MULTI CH IN 1/2)	
S723	1-771-349-21	SWITCH, KEYBOARD (SURR BACK DECODING)	
S724	1-771-349-21	SWITCH, KEYBOARD (INPUT MODE)	
S725	1-771-349-21	SWITCH, KEYBOARD (REC OUT SELECTOR +)	
S726	1-771-349-21	SWITCH, KEYBOARD (DIMMER)	
S727	1-771-349-21	SWITCH, KEYBOARD (SLEEP)	
S728	1-771-349-21	SWITCH, KEYBOARD (NIGHT MODE)	
S729	1-771-349-21	SWITCH, KEYBOARD (ON SCREEN)	
S730	1-771-349-21	SWITCH, KEYBOARD (TEST TONE)	
S731	1-771-349-21	SWITCH, KEYBOARD (ENTER)	
S732	1-771-349-21	SWITCH, KEYBOARD (REC OUT SELECTOR –)	
SW701	1-786-056-11	SWITCH, ROTARY (SPEAKERS FRONT)	
SW702	1-762-537-11	SWITCH, ROTARY (SPEAKERS SURROUND)	

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A-4733-784-A F. VIDEO BOARD, COMPLETE

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< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C715	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C716	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C717	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C726	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C728	1-165-319-11	CERAMIC CHIP	0.1uF		50V

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
CN709	1-784-924-11	PIN, CONNECTOR 8P	
CN710	1-779-978-11	PIN, CONNECTOR 3P	

< IC >

Ref. No.	Part No.	Description	Remark
IC707	6-600-014-01	IC TORX141L (VIDEO 5 INPUT DIGITAL OPTICAL)	

< JACK >

Ref. No.	Part No.	Description	Remark
J702	1-764-190-21	JACK, PIN 3P (VIDEO 5 INPUT S2 VIDEO, VIDEO, AUDIO)	

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R730	1-208-437-41	RES-CHIP	1K	2%	1/10W
R731	1-208-437-41	RES-CHIP	1K	2%	1/10W
R732	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R733	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R734	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R743	1-208-755-11	METAL CHIP	75	0.5%	1/10W

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A-4733-769-A FCOIL BOARD, COMPLETE

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< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C1590	1-100-598-11	MYLAR	1uF	5%	250V
C1591	1-100-598-11	MYLAR	1uF	5%	250V
C1592	1-100-598-11	MYLAR	1uF	5%	250V
C1593	1-100-598-11	MYLAR	1uF	5%	250V
C1594	1-100-598-11	MYLAR	1uF	5%	250V
C1595	1-100-598-11	MYLAR	1uF	5%	250V
C1714	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1715	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1716	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1717	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1722	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1723	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1724	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1725	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1730	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1731	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1732	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1733	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1738	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1739	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1740	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1741	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1746	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1747	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1752	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1753	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1758	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1759	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1764	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1765	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN1506	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P	

< EARTH TERMINAL >

Ref. No.	Part No.	Description	Remark
EP1508	1-537-770-21	TERMINAL BOARD, GROUND	

< COIL >

Ref. No.	Part No.	Description		Remark
L1501	1-456-411-11	INDUCTOR	10uH	
L1502	1-456-411-11	INDUCTOR	10uH	
L1503	1-456-411-11	INDUCTOR	10uH	
L1504	1-456-411-11	INDUCTOR	10uH	
L1505	1-456-411-11	INDUCTOR	10uH	
L1506	1-456-411-11	INDUCTOR	10uH	

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R1732	1-249-818-11	CARBON	4.7K	1%	1/2W
R1733	1-249-818-11	CARBON	4.7K	1%	1/2W
R1734	1-249-818-11	CARBON	4.7K	1%	1/2W

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A-4733-831-A FSP BOARD, COMPLETE

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< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C601	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C602	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C604	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C605	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C607	1-100-154-11	CERAMIC CHIP	330PF	5%	100V

FSP

Ref. No.	Part No.	Description	Remark
C608	1-100-154-11	CERAMIC CHIP 330PF 5%	100V
C609	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C610	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C612	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C613	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C614	1-100-154-11	CERAMIC CHIP 330PF 5%	100V
C615	1-100-154-11	CERAMIC CHIP 330PF 5%	100V
C616	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C617	1-100-154-11	CERAMIC CHIP 330PF 5%	100V
C618	1-100-154-11	CERAMIC CHIP 330PF 5%	100V
C619	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C621	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C625	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C629	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C630	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C634	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C635	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C636	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C637	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C642	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C645	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C648	1-164-690-91	CERAMIC CHIP 0.0022uF 5%	50V
C649	1-164-690-91	CERAMIC CHIP 0.0022uF 5%	50V
C650	1-164-690-91	CERAMIC CHIP 0.0022uF 5%	50V
C651	1-164-690-91	CERAMIC CHIP 0.0022uF 5%	50V
C652	1-164-690-91	CERAMIC CHIP 0.0022uF 5%	50V
C653	1-164-690-91	CERAMIC CHIP 0.0022uF 5%	50V
		< CONNECTOR >	
CN607	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
CN608	1-691-769-11	PLUG (MICRO CONNECTOR) 7P	
		< DIODE >	
D601	8-719-988-61	DIODE 1SS355TE-17	
D602	8-719-988-61	DIODE 1SS355TE-17	
D603	8-719-988-61	DIODE 1SS355TE-17	
D604	8-719-988-61	DIODE 1SS355TE-17	
D605	8-719-988-61	DIODE 1SS355TE-17	
D606	8-719-988-61	DIODE 1SS355TE-17	
D607	8-719-988-61	DIODE 1SS355TE-17	
D608	8-719-988-61	DIODE 1SS355TE-17	
D609	8-719-988-61	DIODE 1SS355TE-17	
D610	8-719-988-61	DIODE 1SS355TE-17	
D611	8-719-988-61	DIODE 1SS355TE-17	
D612	8-719-988-61	DIODE 1SS355TE-17	
D613	8-719-988-61	DIODE 1SS355TE-17	
D614	8-719-988-61	DIODE 1SS355TE-17	
D615	8-719-988-61	DIODE 1SS355TE-17	
D616	8-719-988-61	DIODE 1SS355TE-17	
D617	8-719-988-61	DIODE 1SS355TE-17	
D618	8-719-988-61	DIODE 1SS355TE-17	
		< COIL >	
L601	1-456-594-11	INDUCTOR 33uH	
L602	1-456-594-11	INDUCTOR 33uH	
L603	1-456-594-11	INDUCTOR 33uH	
L604	1-456-594-11	INDUCTOR 33uH	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q601	8-729-216-22	TRANSISTOR 2SA1162-G	
Q602	8-729-216-22	TRANSISTOR 2SA1162-G	
Q603	8-729-216-22	TRANSISTOR 2SA1162-G	
Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q605	8-729-216-22	TRANSISTOR 2SA1162-G	
Q606	8-729-216-22	TRANSISTOR 2SA1162-G	
Q607	8-729-216-22	TRANSISTOR 2SA1162-G	
Q608	8-729-216-22	TRANSISTOR 2SA1162-G	
Q609	8-729-216-22	TRANSISTOR 2SA1162-G	
Q610	8-729-216-22	TRANSISTOR 2SA1162-G	
Q611	8-729-216-22	TRANSISTOR 2SA1162-G	
Q612	8-729-216-22	TRANSISTOR 2SA1162-G	
Q613	8-729-216-22	TRANSISTOR 2SA1162-G	
Q614	8-729-216-22	TRANSISTOR 2SA1162-G	
Q615	8-729-271-31	TRANSISTOR 2SC2713-G	
Q616	8-729-271-31	TRANSISTOR 2SC2713-G	
Q617	8-729-271-31	TRANSISTOR 2SC2713-G	
Q618	8-729-271-31	TRANSISTOR 2SC2713-G	
Q619	8-729-271-31	TRANSISTOR 2SC2713-G	
Q620	8-729-271-31	TRANSISTOR 2SC2713-G	
		< RESISTOR >	
R602	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R603	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R605	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R606	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R608	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R609	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R611	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R612	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R614	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R615	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R617	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R618	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R620	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R621	1-218-760-11	METAL CHIP 220K 0.5%	1/10W
R622	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R623	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R624	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R625	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R626	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R627	1-208-453-41	RES-CHIP 4.7K 2%	1/10W
R630	1-208-462-41	RES-CHIP 10K 2%	1/10W
R631	1-208-462-41	RES-CHIP 10K 2%	1/10W
R632	1-208-462-41	RES-CHIP 10K 2%	1/10W
R633	1-208-462-41	RES-CHIP 10K 2%	1/10W
R634	1-208-462-41	RES-CHIP 10K 2%	1/10W
R635	1-208-462-41	RES-CHIP 10K 2%	1/10W
R636	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
R637	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
R638	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
R639	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
R640	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
R641	1-216-699-11	METAL CHIP 100K 0.5%	1/10W
R642	1-216-699-11	METAL CHIP 100K 0.5%	1/10W

Ref. No.	Part No.	Description			Remark
		< RELAY >			
RY601	1-515-920-11	RELAY			
RY602	1-515-920-11	RELAY			
RY603	1-515-920-11	RELAY			
RY604	1-515-920-11	RELAY			
RY605	1-515-920-11	RELAY			
RY606	1-515-920-11	RELAY			
RY607	1-515-920-11	RELAY			
RY608	1-515-920-11	RELAY			
RY609	1-515-920-11	RELAY			
RY610	1-515-920-11	RELAY			
RY611	1-515-920-11	RELAY			
		< SWITCH >			
S601	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)			
		< TERMINAL >			
TM601	1-780-032-11	TERMINAL BOARD (SP) (8P) (SPEAKERS FRONT)			
**					
	1-688-676-11	FUNC BOARD ***********			
		< CONNECTOR >			
* CNP706	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< ROTARY ENCODER >			
RV705	1-475-976-11	ENCODER, ROTARY (INPUT SELECTOR)			
**					
	1-688-678-11	H. P BOARD **********			
		< CAPACITOR >			
C719	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C720	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
C721	1-164-690-91	CERAMIC CHIP	0.0022uF	5%	50V
		< CONNECTOR >			
CN711	1-784-922-11	PIN, CONNECTOR 5P			
		< JACK >			
J701	1-815-313-11	JACK (PHONES)			
**					
	A-4733-835-A	I. LINK BOARD, COMPLETE *********************			
		< CAPACITOR >			
C3001	1-164-346-11	CERAMIC CHIP	1uF		16V
C3003	1-164-346-11	CERAMIC CHIP	1uF		16V
C3004	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3005	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3006	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C3007	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C3008	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3009	1-128-840-11	ELECT	47uF	20%	16V
C3010	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3011	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3012	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C3013	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C3014	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3015	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3016	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3017	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3018	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3019	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3020	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3021	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3022	1-164-346-11	CERAMIC CHIP	1uF		16V
C3023	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3024	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3025	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3026	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3027	1-136-153-00	MYLAR	0.01uF	5%	50V
C3028	1-127-718-91	ELECT	100uF	20%	16V
C3029	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3030	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3031	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3032	1-136-169-00	MYLAR	0.22uF	5%	50V
C3033	1-127-719-91	ELECT	220uF	20%	16V
C3034	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3035	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3036	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3037	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3038	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3039	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3040	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3041	1-127-719-91	ELECT	220uF	20%	16V
C3042	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3043	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3044	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3045	1-127-718-91	ELECT	100uF	20%	16V
C3046	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3047	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3048	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3049	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3050	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3051	1-119-824-11	ELECT	10uF	20%	50V
C3052	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3053	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3054	1-127-719-91	ELECT	220uF	20%	16V
C3055	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3056	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3057	1-127-718-91	ELECT	100uF	20%	16V
C3058	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3059	1-119-824-11	ELECT	10uF	20%	50V
C3060	1-119-824-11	ELECT	10uF	20%	50V
C3061	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3062	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3063	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3064	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3065	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3066	1-165-319-11	CERAMIC CHIP	0.1uF		50V

I. LINK

Ref. No.	Part No.	Description			Remark
C3067	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3068	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3069	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3070	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3071	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3072	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3073	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3074	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3075	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3076	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3077	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3078	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3079	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3501	1-128-840-11	ELECT	47uF	20%	16V
C3502	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3503	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3504	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3505	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3506	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3534	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3536	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3551	1-127-720-91	ELECT	470uF	20%	16V
C3552	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3558	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3561	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3562	1-119-824-11	ELECT	10uF	20%	50V
C3563	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3564	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CN3001	1-784-369-21	CONNECTOR, FFC/FPC 10P			
CN3501	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P			
CN3502	1-770-410-11	CONNECTOR, BOARD TO BOARD 18P			
CN3503	1-770-412-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D3002	8-719-058-24	DIODE RB501V-40TE-17			
D3004	8-719-058-24	DIODE RB501V-40TE-17			
D3551	8-719-053-18	DIODE 1SR154-400TE-25			
D3552	8-719-053-18	DIODE 1SR154-400TE-25			
D3553	8-719-053-18	DIODE 1SR154-400TE-25			
		< FERRITE BEAD >			
FB3001	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3002	1-469-139-21	FERRITE, EMI (SMD) (2012)			
FB3003	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3004	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3005	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3006	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3007	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3008	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3531	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3532	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3552	1-469-152-11	FERRITE, EMI (SMD) (2012)			
		< IC >			
IC3001	(Not supplied)	IC AT28BV64B-25SI			
IC3002	(Not supplied)	IC M30626FHPFP-DA9000ES			

Ref. No.	Part No.	Description			Remark
IC3003	8-752-421-58	IC CXD3210AR			
IC3004	6-700-852-01	IC SI-3018LUS-TP			
IC3005	8-759-669-75	IC TLC2932IPWR			
IC3006	8-759-232-71	IC TC74HC161AF			
IC3007	8-759-032-01	IC MC74HC00AF			
IC3008	6-702-020-01	IC MSM51V18160F-60T47M1			
IC3009	8-759-232-71	IC TC74HC161AF			
IC3010	8-759-832-05	IC BA18BC0FP-E2			
IC3011	8-759-649-46	IC SN74AHC1G08DCKR			
IC3012	6-704-169-01	IC TMS320VC5409PGE100A			
IC3013	8-759-196-96	IC TC7SH08FU-TE85R			
IC3501	8-759-663-90	IC ADM3222ARU-REEL			
IC3551	8-759-445-59	IC BA033T			
		< JACK >			
J3002	1-793-078-11	CONNECTOR, SQUARE TYPE 4P (i. LINK S200 AUDIO IN)			
J3501	1-815-737-11	CONNECTOR, (D) SUB 9P (RS232C)			
J3533	1-563-330-11	JACK (CONTROL A1II)			
		< COIL >			
L1902	1-400-098-21	COIL, COMMON MODE CHOKE			
L1904	1-400-098-21	COIL, COMMON MODE CHOKE			
		< TRANSISTOR >			
Q3551	8-729-140-93	TRANSISTOR	2SB733-34		
Q3552	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R3001	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3002	1-208-558-41	RES-CHIP	1M	2%	1/10W
R3003	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3004	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3005	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3006	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3007	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3008	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3009	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3010	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3011	1-208-359-81	RES-CHIP	56	0.5%	1/10W
R3012	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3013	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3014	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3015	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3017	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3023	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3024	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3025	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3026	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3027	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R3028	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R3029	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R3030	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R3031	1-216-295-00	SHORT CHIP	0		
R3032	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3033	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R3034	1-208-437-41	RES-CHIP	1K	2%	1/10W
R3035	1-208-462-41	RES-CHIP	10K	2%	1/10W

New part of microcomputer (IC3002) and EEPROM (IC3001) on the I. LINK board cannot be used. Therefore, if the mounted I. LINK board (A-4733-835-A) is replaced, exchange new microcomputer and new EEPROM with that used before the replacement.

Ref. No.	Part No.	Description			Remark
R3036	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R3037	1-208-437-41	RES-CHIP	1K	2%	1/10W
R3038	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3039	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3040	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R3041	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3042	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3043	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3044	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3045	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3046	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3047	1-208-437-41	RES-CHIP	1K	2%	1/10W
R3048	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3049	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3050	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3051	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R3052	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3053	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3054	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R3055	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3056	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3057	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3058	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R3059	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R3060	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3061	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3062	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3063	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3064	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3065	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3066	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3067	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3068	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3069	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3070	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3071	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3072	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3073	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3074	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3075	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3076	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3077	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3078	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3079	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3080	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3081	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3082	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3083	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3084	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3085	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3086	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3087	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3088	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3089	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3090	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3091	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3092	1-208-462-41	RES-CHIP	10K	2%	1/10W

Ref. No.	Part No.	Description			Remark
R3093	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3094	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3095	1-208-437-41	RES-CHIP	1K	2%	1/10W
R3096	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3097	1-208-558-41	RES-CHIP	1M	2%	1/10W
R3098	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R3099	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3100	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3101	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3102	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3103	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3104	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3105	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3106	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3107	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3108	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3109	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3110	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3111	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3112	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3113	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3114	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3115	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3116	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3117	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3118	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3119	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R3120	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R3121	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R3122	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3501	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3502	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R3551	1-208-462-41	RES-CHIP	10K	2%	1/10W
R3552	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R3553	1-208-437-41	RES-CHIP	1K	2%	1/10W

< VIBRATOR >

X3001	1-795-219-21	VIBRATOR, CRYSTAL (24.576MHz)
X3002	1-795-244-11	VIBRATOR, CERAMIC (10MHz)
X3003	1-579-996-21	VIBRATOR, CERAMIC (20MHz)

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A-4733-773-A IR BOARD, COMPLETE

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< CAPACITOR >

C709	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C710	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C711	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C733	1-137-658-91	ELECT	1000uF	20%	6.3V

< DIODE >

D709	8-719-016-74	DIODE 1SS352
D710	8-719-075-86	LED SID307BRTP19 (IR RECEPTOR)
D711	8-719-075-86	LED SID307BRTP19 (IR RECEPTOR)
D712	8-719-075-86	LED SID307BRTP19 (IR RECEPTOR)
D713	8-719-075-86	LED SID307BRTP19 (IR RECEPTOR)
D714	8-719-016-74	DIODE 1SS352

IR **MAIN**

Ref. No.	Part No.	Description	Remark
D715	8-719-016-74	DIODE 1SS352	
D716	8-719-075-86	LED SID307BRTP19 (IR RECEPTOR)	
D717	8-719-075-86	LED SID307BRTP19 (IR RECEPTOR)	
		< TRANSISTOR >	
Q701	8-729-801-93	TRANSISTOR 2SD1387-3	
Q702	8-729-801-93	TRANSISTOR 2SD1387-3	
Q703	8-729-801-93	TRANSISTOR 2SD1387-3	
		< RESISTOR >	
R771	1-216-295-00	SHORT CHIP 0	
R772	1-216-295-00	SHORT CHIP 0	
R773	1-216-295-00	SHORT CHIP 0	
R774	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R775	1-216-627-11	METAL CHIP 100 0.5%	1/10W
R776	1-216-627-11	METAL CHIP 100 0.5%	1/10W
**			
	A-4733-788-A	MAIN BOARD, COMPLETE ********************	
		< CAPACITOR >	
C101	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C102	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C103	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C104	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C106	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C107	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C108	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C109	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C110	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C111	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C112	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C113	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C114	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C115	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C116	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C117	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C118	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C119	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C120	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C121	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C122	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C123	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C124	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C125	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C126	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C127	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C128	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C129	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C130	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C131	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C132	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C134	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C135	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C136	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C137	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C138	1-165-319-11	CERAMIC CHIP 0.1uF	50V

Ref. No.	Part No.	Description	Remark
C139	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C142	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C143	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C144	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C145	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C146	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C147	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	50V
C151	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C152	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C153	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C154	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C160	1-119-834-11	ELECT 22uF 20%	63V
C161	1-119-834-11	ELECT 22uF 20%	63V
C162	1-119-824-31	ELECT 10uF 20%	50V
C163	1-119-824-31	ELECT 10uF 20%	50V
C164	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C165	1-119-827-11	ELECT 47uF 20%	50V
C166	1-119-827-11	ELECT 47uF 20%	50V
C167	1-119-827-11	ELECT 47uF 20%	50V
C168	1-119-827-11	ELECT 47uF 20%	50V
C169	1-119-827-11	ELECT 47uF 20%	50V
C170	1-119-827-11	ELECT 47uF 20%	50V
C171	1-119-827-11	ELECT 47uF 20%	50V
C172	1-119-827-11	ELECT 47uF 20%	50V
C173	1-136-817-11	FILM 0.0033uF 5%	100V
C174	1-136-817-11	FILM 0.0033uF 5%	100V
C175	1-136-817-11	FILM 0.0033uF 5%	100V
C176	1-136-817-11	FILM 0.0033uF 5%	100V
C177	1-136-817-11	FILM 0.0033uF 5%	100V
C178	1-136-817-11	FILM 0.0033uF 5%	100V
C179	1-136-817-11	FILM 0.0033uF 5%	100V
C180	1-136-817-11	FILM 0.0033uF 5%	100V
C181	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C182	1-119-834-11	ELECT 22uF 20%	63V
C183	1-119-834-11	ELECT 22uF 20%	63V
C184	1-119-834-11	ELECT 22uF 20%	63V
C185	1-119-834-11	ELECT 22uF 20%	63V
C186	1-119-834-11	ELECT 22uF 20%	63V
C187	1-119-834-11	ELECT 22uF 20%	63V
C188	1-119-834-11	ELECT 22uF 20%	63V
C189	1-119-834-11	ELECT 22uF 20%	63V
C190	1-119-834-11	ELECT 22uF 20%	63V
C191	1-119-834-11	ELECT 22uF 20%	63V
C192	1-119-834-11	ELECT 22uF 20%	63V
C193	1-119-834-11	ELECT 22uF 20%	63V
C194	1-119-834-11	ELECT 22uF 20%	63V
C195	1-119-834-11	ELECT 22uF 20%	63V
C196	1-119-827-11	ELECT 47uF 20%	50V
C197	1-119-827-11	ELECT 47uF 20%	50V
C198	1-119-827-11	ELECT 47uF 20%	50V
C199	1-119-827-11	ELECT 47uF 20%	50V
C200	1-119-827-11	ELECT 47uF 20%	50V
C201	1-119-827-11	ELECT 47uF 20%	50V
C202	1-119-827-11	ELECT 47uF 20%	50V
C203	1-119-827-11	ELECT 47uF 20%	50V

New part of microcomputer (IC3002) and EEPROM (IC3001) on the I. LINK board cannot be used. Therefore, if the mounted I. LINK board (A-4733-835-A) is replaced, exchange new microcomputer and new EEPROM with that used before the replacement.

MAIN

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN101	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
CN102	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
CN103	1-770-405-11	CONNECTOR, BOARD TO BOARD 8P			
CN104	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P			
CN105	1-770-406-11	CONNECTOR, BOARD TO BOARD 10P			
		< IC >			
IC101	8-759-835-79	IC TC9274N-016			
IC102	8-759-835-79	IC TC9274N-016			
IC103	8-759-835-78	IC TC9274N-015			
IC105	8-759-835-78	IC TC9274N-015			
IC106	8-759-711-85	IC NJM4580E-D			
IC107	8-759-711-85	IC NJM4580E-D			
IC108	8-759-711-85	IC NJM4580E-D			
IC109	8-759-711-85	IC NJM4580E-D			
IC110	8-759-711-85	IC NJM4580E-D			
IC111	8-759-711-85	IC NJM4580E-D			
IC112	8-759-711-85	IC NJM4580E-D			
IC113	8-759-708-05	IC NJM78L05A			
IC114	8-759-711-85	IC NJM4580E-D			
IC115	8-759-711-85	IC NJM4580E-D			
IC116	8-759-711-85	IC NJM4580E-D			
IC117	8-759-711-85	IC NJM4580E-D			
IC118	8-759-711-85	IC NJM4580E-D			
IC119	8-759-711-85	IC NJM4580E-D			
IC120	8-759-711-85	IC NJM4580E-D			
IC121	8-759-711-85	IC NJM4580E-D			
IC122	8-759-238-47	IC TC74HCT7007AF (EL)			
IC123	8-759-711-85	IC NJM4580E-D			
IC124	8-759-711-85	IC NJM4580E-D			
IC125	8-759-711-85	IC NJM4580E-D			
IC126	8-759-711-85	IC NJM4580E-D			
IC127	8-759-711-85	IC NJM4580E-D			
		< JACK >			
J101	1-784-934-11	JACK, PIN 4P (AUDIO TAPE IN/OUT)			
J102	1-785-295-11	JACK, PIN 6P (AUDIO MD/DAT IN, MD/DAT OUT, CD/SACD IN)			
J103	1-784-934-11	JACK, PIN 4P (MULTI CHANNEL IN 1 FRONT, SURROUND)			
J104	1-815-520-11	JACK, PIN 4P (MULTI CHANNEL IN 1 SURR BACK, CENTER, SUB WOOFER)			
J105	1-784-934-11	JACK, PIN 4P (MULTI CHANNEL IN 2 FRONT, SURROUND)			
J106	1-815-520-11	JACK, PIN 4P (MULTI CHANNEL IN 2 SURR BACK, CENTER, SUB WOOFER)			
		< RESISTOR >			
R101	1-259-995-11	CARBON MELF	1K	2%	1/8W
R102	1-259-995-11	CARBON MELF	1K	2%	1/8W
R103	1-259-995-11	CARBON MELF	1K	2%	1/8W
R104	1-259-995-11	CARBON MELF	1K	2%	1/8W
R105	1-259-995-11	CARBON MELF	1K	2%	1/8W
R106	1-259-995-11	CARBON MELF	1K	2%	1/8W
R107	1-259-995-11	CARBON MELF	1K	2%	1/8W
R108	1-259-995-11	CARBON MELF	1K	2%	1/8W
R109	1-259-995-11	CARBON MELF	1K	2%	1/8W
R110	1-259-995-11	CARBON MELF	1K	2%	1/8W
R111	1-259-995-11	CARBON MELF	1K	2%	1/8W
R112	1-259-995-11	CARBON MELF	1K	2%	1/8W
R113	1-259-995-11	CARBON MELF	1K	2%	1/8W
R114	1-259-995-11	CARBON MELF	1K	2%	1/8W
R115	1-259-995-11	CARBON MELF	1K	2%	1/8W
R116	1-259-995-11	CARBON MELF	1K	2%	1/8W
R117	1-259-995-11	CARBON MELF	1K	2%	1/8W
R118	1-259-995-11	CARBON MELF	1K	2%	1/8W
R119	1-259-995-11	CARBON MELF	1K	2%	1/8W
R120	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R121	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R122	1-259-995-11	CARBON MELF	1K	2%	1/8W
R123	1-259-995-11	CARBON MELF	1K	2%	1/8W
R124	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R125	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R126	1-259-995-11	CARBON MELF	1K	2%	1/8W
R127	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R128	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R129	1-260-010-11	CARBON MELF	15K	2%	1/8W
R130	1-260-010-11	CARBON MELF	15K	2%	1/8W
R131	1-260-010-11	CARBON MELF	15K	2%	1/8W
R132	1-260-010-11	CARBON MELF	15K	2%	1/8W
R133	1-260-008-11	CARBON MELF	10K	2%	1/8W
R134	1-260-008-11	CARBON MELF	10K	2%	1/8W
R135	1-260-011-11	CARBON MELF	18K	2%	1/8W
R136	1-260-011-11	CARBON MELF	18K	2%	1/8W
R137	1-260-013-11	CARBON MELF	27K	2%	1/8W
R138	1-260-013-11	CARBON MELF	27K	2%	1/8W
R141	1-260-015-11	CARBON MELF	39K	2%	1/8W
R142	1-260-015-11	CARBON MELF	39K	2%	1/8W
R143	1-260-008-11	CARBON MELF	10K	2%	1/8W
R144	1-260-008-11	CARBON MELF	10K	2%	1/8W
R148	1-208-437-41	RES-CHIP	1K	2%	1/10W
R149	1-208-437-41	RES-CHIP	1K	2%	1/10W
R150	1-260-020-11	CARBON MELF	100K	2%	1/8W
R151	1-260-008-11	CARBON MELF	10K	2%	1/8W
R152	1-208-437-41	RES-CHIP	1K	2%	1/10W
R153	1-260-008-11	CARBON MELF	10K	2%	1/8W
R154	1-259-977-11	CARBON MELF	33	2%	1/8W
R155	1-259-977-11	CARBON MELF	33	2%	1/8W
R156	1-208-437-41	RES-CHIP	1K	2%	1/10W
R157	1-259-977-11	CARBON MELF	33	2%	1/8W
R158	1-259-977-11	CARBON MELF	33	2%	1/8W
R159	1-208-437-41	RES-CHIP	1K	2%	1/10W
R160	1-208-437-41	RES-CHIP	1K	2%	1/10W
R161	1-259-977-11	CARBON MELF	33	2%	1/8W
R162	1-259-977-11	CARBON MELF	33	2%	1/8W
R163	1-208-437-41	RES-CHIP	1K	2%	1/10W
R164	1-208-437-41	RES-CHIP	1K	2%	1/10W
R165	1-208-437-41	RES-CHIP	1K	2%	1/10W
R166	1-208-437-41	RES-CHIP	1K	2%	1/10W
R167	1-259-977-11	CARBON MELF	33	2%	1/8W
R168	1-259-977-11	CARBON MELF	33	2%	1/8W
R169	1-260-008-11	CARBON MELF	10K	2%	1/8W
R171	1-260-008-11	CARBON MELF	10K	2%	1/8W
R174	1-208-437-41	RES-CHIP	1K	2%	1/10W

MAIN MOTHER

Ref. No.	Part No.	Description			Remark
R175	1-208-437-41	RES-CHIP	1K	2%	1/10W
R178	1-260-020-11	CARBON MELF	100K	2%	1/8W
R180	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R181	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R182	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R185	1-260-016-11	CARBON MELF	47K	2%	1/8W
R186	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R187	1-260-016-11	CARBON MELF	47K	2%	1/8W
R188	1-260-008-11	CARBON MELF	10K	2%	1/8W
R189	1-260-008-11	CARBON MELF	10K	2%	1/8W
R190	1-260-016-11	CARBON MELF	47K	2%	1/8W
R191	1-260-016-11	CARBON MELF	47K	2%	1/8W
R192	1-260-016-11	CARBON MELF	47K	2%	1/8W
R193	1-260-016-11	CARBON MELF	47K	2%	1/8W
R194	1-260-016-11	CARBON MELF	47K	2%	1/8W
R195	1-260-016-11	CARBON MELF	47K	2%	1/8W
R196	1-260-016-11	CARBON MELF	47K	2%	1/8W
R197	1-260-016-11	CARBON MELF	47K	2%	1/8W
R198	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R199	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R200	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R201	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R202	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R203	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R204	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R205	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R206	1-259-979-11	CARBON MELF	47	2%	1/8W
R207	1-259-979-11	CARBON MELF	47	2%	1/8W
R208	1-259-979-11	CARBON MELF	47	2%	1/8W
R209	1-259-979-11	CARBON MELF	47	2%	1/8W
R210	1-259-979-11	CARBON MELF	47	2%	1/8W
R211	1-259-979-11	CARBON MELF	47	2%	1/8W
R212	1-259-979-11	CARBON MELF	47	2%	1/8W
R213	1-259-979-11	CARBON MELF	47	2%	1/8W
R214	1-259-995-11	CARBON MELF	1K	2%	1/8W
R215	1-260-008-11	CARBON MELF	10K	2%	1/8W
R216	1-259-995-11	CARBON MELF	1K	2%	1/8W
R217	1-260-008-11	CARBON MELF	10K	2%	1/8W
R218	1-259-995-11	CARBON MELF	1K	2%	1/8W
R219	1-260-008-11	CARBON MELF	10K	2%	1/8W
R220	1-259-995-11	CARBON MELF	1K	2%	1/8W
R221	1-260-008-11	CARBON MELF	10K	2%	1/8W
R222	1-259-995-11	CARBON MELF	1K	2%	1/8W
R223	1-260-008-11	CARBON MELF	10K	2%	1/8W
R224	1-259-995-11	CARBON MELF	1K	2%	1/8W
R225	1-260-008-11	CARBON MELF	10K	2%	1/8W
R226	1-259-995-11	CARBON MELF	1K	2%	1/8W
R227	1-260-008-11	CARBON MELF	10K	2%	1/8W
R228	1-259-995-11	CARBON MELF	1K	2%	1/8W
R229	1-260-008-11	CARBON MELF	10K	2%	1/8W
R230	1-259-979-11	CARBON MELF	47	2%	1/8W
R231	1-259-979-11	CARBON MELF	47	2%	1/8W
R232	1-259-979-11	CARBON MELF	47	2%	1/8W
R233	1-259-979-11	CARBON MELF	47	2%	1/8W
R234	1-259-979-11	CARBON MELF	47	2%	1/8W
R235	1-259-979-11	CARBON MELF	47	2%	1/8W
R236	1-259-979-11	CARBON MELF	47	2%	1/8W
R237	1-259-979-11	CARBON MELF	47	2%	1/8W

Ref. No.	Part No.	Description			Remark
R238	1-260-008-11	CARBON MELF	10K	2%	1/8W
R239	1-260-008-11	CARBON MELF	10K	2%	1/8W
R240	1-260-008-11	CARBON MELF	10K	2%	1/8W
R241	1-260-008-11	CARBON MELF	10K	2%	1/8W
R242	1-260-008-11	CARBON MELF	10K	2%	1/8W
R243	1-260-008-11	CARBON MELF	10K	2%	1/8W
R244	1-260-008-11	CARBON MELF	10K	2%	1/8W
R245	1-260-008-11	CARBON MELF	10K	2%	1/8W
R246	1-260-008-11	CARBON MELF	10K	2%	1/8W
R247	1-260-008-11	CARBON MELF	10K	2%	1/8W
R248	1-260-008-11	CARBON MELF	10K	2%	1/8W
R249	1-260-008-11	CARBON MELF	10K	2%	1/8W
R250	1-260-013-11	CARBON MELF	27K	2%	1/8W
R251	1-260-013-11	CARBON MELF	27K	2%	1/8W
R252	1-260-008-11	CARBON MELF	10K	2%	1/8W
R253	1-260-008-11	CARBON MELF	10K	2%	1/8W
R254	1-260-016-11	CARBON MELF	47K	2%	1/8W
R255	1-260-016-11	CARBON MELF	47K	2%	1/8W
R256	1-260-016-11	CARBON MELF	47K	2%	1/8W
R257	1-260-016-11	CARBON MELF	47K	2%	1/8W
R258	1-260-016-11	CARBON MELF	47K	2%	1/8W
R259	1-260-016-11	CARBON MELF	47K	2%	1/8W
R260	1-260-016-11	CARBON MELF	47K	2%	1/8W
R261	1-260-016-11	CARBON MELF	47K	2%	1/8W
R262	1-260-016-11	CARBON MELF	47K	2%	1/8W
R263	1-260-016-11	CARBON MELF	47K	2%	1/8W
R264	1-260-016-11	CARBON MELF	47K	2%	1/8W
R265	1-260-016-11	CARBON MELF	47K	2%	1/8W
R266	1-260-016-11	CARBON MELF	47K	2%	1/8W
R267	1-260-016-11	CARBON MELF	47K	2%	1/8W

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	A-4733-848-A	MOTHER BOARD, COMPLETE (TW, KR)
	A-4733-869-A	MOTHER BOARD, COMPLETE (AEP)

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	1-533-217-41	HOLDER, FUSE
*	3-309-144-21	HEAT SINK
*	4-941-237-01	HEAT SINK
	4-974-510-11	SCREW (+BV 3X8 CU)

< CAPACITOR >

C802	1-119-803-11	ELECT	470uF	20%	25V
C807	1-100-621-11	ELECT	470uF	20%	10V
C809	1-119-815-21	ELECT	2200uF	20%	35V
C810	1-119-803-11	ELECT	470uF	20%	25V
C811	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C812	1-119-803-11	ELECT	470uF	20%	25V
C813	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C814	1-119-815-21	ELECT	2200uF	20%	35V
C815	1-119-796-21	ELECT	4700uF	20%	16V
C816	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C817	1-100-621-11	ELECT	470uF	20%	10V
C818	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C819	1-100-621-11	ELECT	470uF	20%	10V
C820	1-119-796-21	ELECT	4700uF	20%	16V
C821	1-100-621-11	ELECT	470uF	20%	10V
C822	1-100-621-11	ELECT	470uF	20%	10V
C823	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C824	1-128-860-11	ELECT	47uF	20%	50V
C825	1-128-860-11	ELECT	47uF	20%	50V
C826	1-128-873-91	ELECT	220uF	20%	63V
C827	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C828	1-128-860-11	ELECT	47uF	20%	50V
C829	1-100-621-11	ELECT	470uF	20%	10V
C830	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C832	1-135-669-11	ELECT	470uF		10V
C835	1-100-599-11	ELECT (BLOCK)	6800uF	20%	71V
C838	1-135-734-51	ELECT	1000uF		100V
C840	1-100-599-11	ELECT (BLOCK)	6800uF	20%	71V
C841	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C843	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C846	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C853	1-100-621-11	ELECT	470uF	20%	10V
C854	1-100-621-11	ELECT	470uF	20%	10V
C856	1-100-621-11	ELECT	470uF	20%	10V
C857	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C858	1-100-621-11	ELECT	470uF	20%	10V
C859	1-135-703-91	ELECT	22uF		25V
C860	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C861	1-100-621-11	ELECT	470uF	20%	10V
C862	1-135-703-91	ELECT	22uF		25V
C863	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C868	1-100-621-11	ELECT	470uF	20%	10V
C869	1-100-621-11	ELECT	470uF	20%	10V
C870	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C871	1-100-621-11	ELECT	470uF	20%	10V
C872	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C873	1-100-621-11	ELECT	470uF	20%	10V
C874	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C880	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C881	1-135-760-51	ELECT	1000uF		50V
C884	1-100-598-11	MYLAR	1uF	5%	250V
C887	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C888	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C889	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C890	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C891	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C892	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C893	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C894	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C895	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C896	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C897	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C898	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C899	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C900	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C901	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C902	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C903	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C904	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C907	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C908	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C909	1-100-621-11	ELECT	470uF	20%	10V
C910	1-135-665-91	ELECT	47uF		10V
C911	1-135-681-91	ELECT	100uF		25V
C912	1-137-150-11	FILM	0.01uF	5%	100V

Ref. No.	Part No.	Description			Remark
C913	1-137-150-11	FILM	0.01uF	5%	100V
C914	1-135-770-91	ELECT	47uF		63V
C915	1-135-770-91	ELECT	47uF		63V
C917	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C918	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C919	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C920	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C921	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C925	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C926	1-137-150-11	FILM	0.01uF	5%	100V
C927	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C928	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V

< CONNECTOR >

Ref. No.	Part No.	Description
CN803	1-691-768-11	PLUG (MICRO CONNECTOR) 6P
CN806	1-691-767-11	PLUG (MICRO CONNECTOR) 5P
CN807	1-691-767-11	PLUG (MICRO CONNECTOR) 5P
CN809	1-564-510-11	PLUG (MICRO CONNECTOR) 6P
CN815	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P
CN816	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P
CN820	1-691-765-11	PLUG (MICRO CONNECTOR) 3P
CN823	1-691-769-11	PLUG (MICRO CONNECTOR) 7P
* CN824	1-766-957-11	CONNECTOR, BOARD TO BOARD 20P
* CN827	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P
CN829	1-691-769-21	PLUG (MICRO CONNECTOR) 7P
CNS801	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS802	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS803	1-770-384-21	CONNECTOR, BOARD TO BOARD 16P
CNS804	1-770-385-11	CONNECTOR, BOARD TO BOARD 18P
CNS805	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS806	1-770-384-21	CONNECTOR, BOARD TO BOARD 16P
CNS807	1-770-385-11	CONNECTOR, BOARD TO BOARD 18P
CNS808	1-770-379-11	CONNECTOR, BOARD TO BOARD 6P
CNS809	1-770-380-11	CONNECTOR, BOARD TO BOARD 8P
CNS810	1-770-383-11	CONNECTOR, BOARD TO BOARD 14P
CNS811	1-770-383-11	CONNECTOR, BOARD TO BOARD 14P
CNS812	1-770-383-11	CONNECTOR, BOARD TO BOARD 14P
CNS813	1-770-383-11	CONNECTOR, BOARD TO BOARD 14P
CNS814	1-770-380-11	CONNECTOR, BOARD TO BOARD 8P
CNS815	1-770-380-11	CONNECTOR, BOARD TO BOARD 8P
CNS816	1-770-385-11	CONNECTOR, BOARD TO BOARD 18P
CNS817	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS818	1-770-379-11	CONNECTOR, BOARD TO BOARD 6P
CNS819	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS820	1-770-384-21	CONNECTOR, BOARD TO BOARD 16P
CNS821	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS822	1-770-384-21	CONNECTOR, BOARD TO BOARD 16P
CNS823	1-770-381-11	CONNECTOR, BOARD TO BOARD 10P
CNS824	1-770-381-11	CONNECTOR, BOARD TO BOARD 10P
CNS825	1-770-386-11	CONNECTOR, BOARD TO BOARD 20P
CNS826	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P

< DIODE >

Ref. No.	Part No.	Description	
D802	8-719-510-53	DIODE	D4SB60L
D806	8-719-302-38	DIODE	RBV-602-01
D807	8-719-053-18	DIODE	1SR154-400TE-25
D808	8-719-053-18	DIODE	1SR154-400TE-25
D809	8-719-083-85	DIODE	UDZSTE-1722B

MOTHER

Ref. No.	Part No.	Description	Remark
D810	8-719-053-18	DIODE 1SR154-400TE-25	
D811	8-719-053-18	DIODE 1SR154-400TE-25	
D812	8-719-053-18	DIODE 1SR154-400TE-25	
D813	8-719-070-30	DIODE PTZ-TE25-5.6A	
D814	8-719-053-18	DIODE 1SR154-400TE-25	
D815	8-719-053-18	DIODE 1SR154-400TE-25	
D816	8-719-053-18	DIODE 1SR154-400TE-25	
D818	8-719-016-74	DIODE 1SS352	
D837	8-719-083-67	DIODE UDZSTE-1720B	
D838	8-719-053-18	DIODE 1SR154-400TE-25	
D839	8-719-053-18	DIODE 1SR154-400TE-25	
D840	8-719-016-74	DIODE 1SS352	
D841	8-719-016-74	DIODE 1SS352	
D842	8-719-016-74	DIODE 1SS352	
D843	8-719-016-74	DIODE 1SS352	
D844	8-719-016-74	DIODE 1SS352	
D845	8-719-016-74	DIODE 1SS352	
D846	8-719-073-69	DIODE PTZ-TE25-6.2A	
D847	8-719-073-69	DIODE PTZ-TE25-6.2A	
		< EARTH TERMINAL >	
EP803	1-537-770-21	TERMINAL BOARD, GROUND	
EP804	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB801	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB802	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB803	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB804	1-469-152-11	FERRITE, EMI (SMD) (2012)	
		< IC >	
IC802	8-759-394-35	IC BA12T	
IC804	8-759-450-47	IC BA05T	
IC806	8-759-394-35	IC BA12T	
IC807	8-759-245-86	IC TA79012S	
IC808	8-759-450-47	IC BA05T	
IC809	8-759-245-79	IC TA79005S	
IC810	8-759-450-47	IC BA05T	
IC811	8-759-445-59	IC BA033T	
IC812	8-759-445-59	IC BA033T	
IC813	8-759-450-47	IC BA05T	
IC816	8-759-636-55	IC M5218AFP	
IC817	8-759-545-66	IC NJM3414AMP (TE2)	
IC818	8-759-545-66	IC NJM3414AMP (TE2)	
IC819	6-700-942-01	IC M62342FP	
IC820	8-759-445-59	IC BA033T	
IC821	8-759-450-47	IC BA05T	
IC822	8-759-701-59	IC NJM78M09FA	
IC823	8-759-604-49	IC M5F7909L	
IC825	8-759-450-47	IC BA05T	
		< TRANSISTOR >	
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-209-15	TRANSISTOR 2SD2012	
Q803	8-729-900-53	TRANSISTOR DTC114EK	
Q804	8-729-140-96	TRANSISTOR 2SD774-34	
Q805	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q806	8-729-140-93	TRANSISTOR 2SB733-34	

Ref. No.	Part No.	Description	Remark
Q809	8-729-216-31	TRANSISTOR 2SA1163-G	
Q810	8-729-216-31	TRANSISTOR 2SA1163-G	
Q811	8-729-216-31	TRANSISTOR 2SA1163-G	
Q812	8-729-271-31	TRANSISTOR 2SC2713-G	
Q813	8-729-271-31	TRANSISTOR 2SC2713-G	
Q814	8-729-271-31	TRANSISTOR 2SC2713-G	
Q815	8-729-271-31	TRANSISTOR 2SC2713-G	
Q817	8-729-017-06	TRANSISTOR 2SC4793	
Q820	8-729-271-31	TRANSISTOR 2SC2713-G	
Q821	8-729-271-31	TRANSISTOR 2SC2713-G	
Q824	8-729-271-31	TRANSISTOR 2SC2713-G	
Q825	8-729-017-05	TRANSISTOR 2SA1837	
Q826	8-729-271-31	TRANSISTOR 2SC2713-G	
Q827	8-729-232-69	FET 2SK208-GR3	
Q828	8-729-271-31	TRANSISTOR 2SC2713-G	
Q829	8-729-271-31	TRANSISTOR 2SC2713-G	
Q833	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q834	8-729-216-31	TRANSISTOR 2SA1163-G	
Q836	8-729-271-31	TRANSISTOR 2SC2713-G	
Q837	8-729-271-31	TRANSISTOR 2SC2713-G	
		< RESISTOR >	
⚠R801	1-249-401-11	CARBON 47 5% 1/4W	F
⚠R802	1-260-292-11	CARBON 1 5% 1/2W	F
R803	1-208-449-41	RES-CHIP 3.3K 2% 1/10W	
R804	1-208-518-41	RES-CHIP 22K 2% 1/10W	
R805	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R806	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R807	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R808	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R809	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R810	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
⚠R811	1-212-934-00	FUSIBLE 1 5% 1/2W	F
⚠R812	1-212-934-00	FUSIBLE 1 5% 1/2W	F
R813	1-216-699-11	METAL CHIP 100K 0.5% 1/10W	
R814	1-216-699-11	METAL CHIP 100K 0.5% 1/10W	
⚠R815	1-249-417-11	CARBON 1K 5% 1/4W	F
⚠R816	1-249-417-11	CARBON 1K 5% 1/4W	F
R819	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R820	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R823	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R824	1-208-449-41	RES-CHIP 3.3K 2% 1/10W	
⚠R825	1-215-869-11	METAL OXIDE 1K 5% 1W	F
⚠R826	1-215-869-11	METAL OXIDE 1K 5% 1W	F
R829	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R830	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R832	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R833	1-208-462-41	RES-CHIP 10K 2% 1/10W	
R838	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R839	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R840	1-216-627-11	METAL CHIP 100 0.5% 1/10W	
R841	1-208-437-41	RES-CHIP 1K 2% 1/10W	
R842	1-216-657-11	METAL CHIP 1.8K 0.5% 1/10W	
R843	1-249-818-11	CARBON 4.7K 1% 1/2W	
R844	1-211-960-11	METAL CHIP 22 0.5% 1/10W	
R845	1-208-449-41	RES-CHIP 3.3K 2% 1/10W	
R848	1-211-960-11	METAL CHIP 22 0.5% 1/10W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R849	1-208-437-41	RES-CHIP	1K	2%	1/10W
R850	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R851	1-208-462-41	RES-CHIP	10K	2%	1/10W
R852	1-208-462-41	RES-CHIP	10K	2%	1/10W
R853	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R854	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R855	1-259-341-81	CARBON	36K	1%	1/2W
R856	1-208-462-41	RES-CHIP	10K	2%	1/10W
R857	1-208-437-41	RES-CHIP	1K	2%	1/10W
R858	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R859	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R860	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R861	1-208-462-41	RES-CHIP	10K	2%	1/10W
R862	1-208-437-41	RES-CHIP	1K	2%	1/10W
R863	1-208-462-41	RES-CHIP	10K	2%	1/10W
R864	1-259-341-81	CARBON	36K	1%	1/2W
R865	1-208-462-41	RES-CHIP	10K	2%	1/10W
R866	1-208-437-41	RES-CHIP	1K	2%	1/10W
R867	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R868	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R869	1-260-028-11	CARBON MELF	470K	2%	1/8W
R870	1-208-449-41	RES-CHIP	3.3K	2%	1/10W
R871	1-260-028-11	CARBON MELF	470K	2%	1/8W
R872	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R873	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R875	1-259-939-11	CARBON MELF	24K	2%	1/8W
R876	1-208-462-41	RES-CHIP	10K	2%	1/10W
R877	1-259-317-81	CARBON	3.6K	1%	1/2W
R878	1-259-317-81	CARBON	3.6K	1%	1/2W
R887	1-208-462-41	RES-CHIP	10K	2%	1/10W
R891	1-260-014-11	CARBON MELF	33K	2%	1/8W
R895	1-208-437-41	RES-CHIP	1K	2%	1/10W
R896	1-208-462-41	RES-CHIP	10K	2%	1/10W
R897	1-208-558-41	RES-CHIP	1M	2%	1/10W
R898	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R899	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R900	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R901	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
⚠R904	1-249-417-11	CARBON	1K	5%	1/4W F
⚠R906	1-249-417-11	CARBON	1K	5%	1/4W F

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1-688-672-11 POWER BOARD

****

< SWITCH >

S701 1-771-349-21 SWITCH, KEYBOARD (I/⏻)

****

A-4733-810-A PREOUT BOARD, COMPLETE

****

< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C1201	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1202	1-119-825-41	ELECT	22uF	20%	50V
C1203	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1204	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1205	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C1206	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1207	1-119-825-41	ELECT	22uF	20%	50V
C1208	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1209	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1211	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1212	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1214	1-137-429-11	MYLAR	270PF	5%	50V
C1215	1-137-429-11	MYLAR	270PF	5%	50V
C1216	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1218	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1220	1-137-429-11	MYLAR	270PF	5%	50V
C1221	1-137-429-11	MYLAR	270PF	5%	50V
C1222	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1224	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1226	1-137-429-11	MYLAR	270PF	5%	50V
C1227	1-137-429-11	MYLAR	270PF	5%	50V
C1228	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1230	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1232	1-137-429-11	MYLAR	270PF	5%	50V
C1233	1-137-429-11	MYLAR	270PF	5%	50V
C1234	1-137-457-11	MYLAR	0.0027uF	5%	100V
C1236	1-119-850-11	ELECT	10uF	20%	100V
C1237	1-119-850-11	ELECT	10uF	20%	100V
C1238	1-119-850-11	ELECT	10uF	20%	100V
C1239	1-119-850-11	ELECT	10uF	20%	100V
C1240	1-119-850-11	ELECT	10uF	20%	100V
C1241	1-119-850-11	ELECT	10uF	20%	100V
C1242	1-119-850-11	ELECT	10uF	20%	100V
C1243	1-119-850-11	ELECT	10uF	20%	100V

< CONNECTOR >

Ref. No.	Part No.	Description
CN1201	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P
CN1202	1-779-799-11	PIN, CONNECTOR 9P
CN1203	1-770-406-11	CONNECTOR, BOARD TO BOARD 10P

< IC >

Ref. No.	Part No.	Description	
IC1201	8-759-238-47	IC	TC74HCT7007AF (EL)
IC1202	8-759-590-10	IC	TC9273F-012 (EL)
IC1203	8-759-711-85	IC	NJM4580E-D
IC1204	8-759-711-85	IC	NJM4580E-D
IC1205	8-759-835-79	IC	TC9274N-016
IC1206	8-759-711-85	IC	NJM4580E-D
IC1207	8-759-711-85	IC	NJM4580E-D
IC1208	8-759-711-85	IC	NJM4580E-D
IC1209	8-759-711-85	IC	NJM4580E-D

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R1201	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1202	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1203	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1204	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R1205	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1206	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1207	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1208	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1209	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1210	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1212	1-208-437-41	RES-CHIP	1K	2%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PREOUT

Ref. No.	Part No.	Description			Remark
R1213	1-259-977-11	CARBON MELF	33	2%	1/8W
R1214	1-259-977-11	CARBON MELF	33	2%	1/8W
R1215	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1216	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R1217	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1218	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1219	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1220	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1221	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1222	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1223	1-260-008-11	CARBON MELF	10K	2%	1/8W
R1225	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1226	1-259-977-11	CARBON MELF	33	2%	1/8W
R1227	1-259-977-11	CARBON MELF	33	2%	1/8W
R1228	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1229	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1230	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1232	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1233	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1234	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1235	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1236	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1237	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1239	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1240	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1242	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1243	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1244	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1245	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1246	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1247	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1249	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1250	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1252	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1253	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1254	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1255	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1256	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1257	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1259	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1260	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1262	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1263	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1264	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1265	1-260-007-11	CARBON MELF	8.2K	2%	1/8W
R1266	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1267	1-260-010-11	CARBON MELF	15K	2%	1/8W
R1269	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1270	1-259-983-11	CARBON MELF	100	2%	1/8W
R1271	1-259-983-11	CARBON MELF	100	2%	1/8W
R1272	1-259-983-11	CARBON MELF	100	2%	1/8W
R1273	1-259-983-11	CARBON MELF	100	2%	1/8W
R1274	1-259-983-11	CARBON MELF	100	2%	1/8W
R1275	1-259-983-11	CARBON MELF	100	2%	1/8W
R1276	1-259-983-11	CARBON MELF	100	2%	1/8W
R1277	1-259-983-11	CARBON MELF	100	2%	1/8W

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RCOIL

Ref. No.	Part No.	Description			Remark
	A-4733-771-A	RCOIL BOARD, COMPLETE			
		**********************			
		< CAPACITOR >			
C1674	1-100-598-11	MYLAR	1uF	5%	250V
C1675	1-100-598-11	MYLAR	1uF	5%	250V
C1676	1-100-598-11	MYLAR	1uF	5%	250V
C1677	1-100-598-11	MYLAR	1uF	5%	250V
C1678	1-100-598-11	MYLAR	1uF	5%	250V
C1679	1-100-598-11	MYLAR	1uF	5%	250V
C1680	1-100-598-11	MYLAR	1uF	5%	250V
C1681	1-100-598-11	MYLAR	1uF	5%	250V
C1718	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1719	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1720	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1721	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1726	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1727	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1728	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1729	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1734	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1735	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1736	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1737	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1742	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1743	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1744	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1745	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1748	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1749	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1750	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1751	1-100-153-11	CERAMIC CHIP	220PF	5%	100V
C1754	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1755	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1756	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1757	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1760	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1761	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1762	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1763	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C1766	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1767	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1768	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
C1769	1-100-158-11	CERAMIC CHIP	1000PF	5%	100V
		< CONNECTOR >			
* CN1512	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P			
* CN1516	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
		< EARTH TERMINAL >			
EP1506	1-537-770-21	TERMINAL BOARD, GROUND			
		< COIL >			
L1507	1-456-411-11	INDUCTOR	10uH		
L1508	1-456-411-11	INDUCTOR	10uH		
L1509	1-456-411-11	INDUCTOR	10uH		
L1510	1-456-411-11	INDUCTOR	10uH		
L1511	1-456-411-11	INDUCTOR	10uH		

Ref. No.	Part No.	Description			Remark
L1512	1-456-411-11	INDUCTOR	10uH		
L1513	1-456-411-11	INDUCTOR	10uH		
L1514	1-456-411-11	INDUCTOR	10uH		
		< RESISTOR >			
R1735	1-249-818-11	CARBON	4.7K	1%	1/2W
R1736	1-249-818-11	CARBON	4.7K	1%	1/2W
R1737	1-249-818-11	CARBON	4.7K	1%	1/2W
R1738	1-249-818-11	CARBON	4.7K	1%	1/2W
**					
	A-4733-833-A	RSP BOARD, COMPLETE *******************			
		< CAPACITOR >			
C626	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C627	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C631	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C632	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C638	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C639	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C640	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
C641	1-100-154-11	CERAMIC CHIP	330PF	5%	100V
		< CONNECTOR >			
* CN603	1-564-674-11	PIN, CONNECTOR (3.96mm PITCH) 8P			
		< TERMINAL >			
TM602	1-780-032-11	TERMINAL BOARD (SP) (8P)			
(SPEAKERS SURROUND)					
**					
	A-4733-775-A	S. F BOARD, COMPLETE *******************			
		< RESISTOR >			
R746	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R747	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R752	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
		< SWITCH >			
S712	1-771-349-21	SWITCH, KEYBOARD (2CH)			
S713	1-771-349-21	SWITCH, KEYBOARD (A. F. D)			
S714	1-771-349-21	SWITCH, KEYBOARD (MOVIE)			
S715	1-771-349-21	SWITCH, KEYBOARD (MUSIC)			
**					
	A-4733-790-A	SUB BOARD, COMPLETE *******************			
		< CAPACITOR >			
C1001	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1002	1-119-799-11	ELECT	47uF	20%	25V
C1003	1-119-799-11	ELECT	47uF	20%	25V
C1004	1-119-824-31	ELECT	10uF	20%	50V
C1005	1-119-824-31	ELECT	10uF	20%	50V
C1011	1-137-471-11	MYLAR	0.016uF	5%	50V
C1012	1-137-471-11	MYLAR	0.016uF	5%	50V
C1013	1-136-162-00	MYLAR	0.056uF	5%	50V
C1014	1-136-162-00	MYLAR	0.056uF	5%	50V

Ref. No.	Part No.	Description			Remark
C1017	1-119-801-11	ELECT	220uF	20%	25V
C1018	1-119-801-11	ELECT	220uF	20%	25V
C1021	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1022	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1023	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1024	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1026	1-119-823-11	ELECT	4.7uF	20%	50V
C1027	1-119-823-11	ELECT	4.7uF	20%	50V
C1037	1-119-825-11	ELECT	22uF	20%	50V
C1038	1-119-825-11	ELECT	22uF	20%	50V
C1044	1-119-825-11	ELECT	22uF	20%	50V
C1047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1048	1-119-825-11	ELECT	22uF	20%	50V
C1049	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1050	1-119-825-11	ELECT	22uF	20%	50V
C1051	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1052	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1053	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1054	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1055	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1056	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1057	1-119-825-11	ELECT	22uF	20%	50V
C1058	1-119-825-11	ELECT	22uF	20%	50V
C1059	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1060	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1061	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1062	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1063	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1064	1-119-825-11	ELECT	22uF	20%	50V
C1065	1-119-825-11	ELECT	22uF	20%	50V
C1066	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1067	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1068	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1069	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1070	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1071	1-119-825-11	ELECT	22uF	20%	50V
C1072	1-119-825-11	ELECT	22uF	20%	50V
C1073	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1074	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1075	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1076	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1077	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1078	1-119-825-11	ELECT	22uF	20%	50V
C1079	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1080	1-119-825-11	ELECT	22uF	20%	50V
C1081	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1082	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1083	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1084	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1085	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1086	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1087	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1088	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C1089	1-119-825-11	ELECT	22uF	20%	50V
C1090	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1091	1-119-825-11	ELECT	22uF	20%	50V
C1092	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

SUB

Ref. No.	Part No.	Description			Remark
C1093	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1094	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1095	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1096	1-119-825-11	ELECT	22uF	20%	50V
C1101	1-119-825-11	ELECT	22uF	20%	50V
C1102	1-119-825-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
CN1001	1-770-405-11	CONNECTOR, BOARD TO BOARD 8P			
CN1002	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
CN1003	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
CN1005	1-779-978-11	PIN, CONNECTOR 3P			
CN1006	1-770-407-11	CONNECTOR, BOARD TO BOARD 12P			
		< DIODE >			
D1003	8-719-016-74	DIODE 1SS352			
		< IC >			
IC1001	8-759-238-47	IC TC74HCT7007AF (EL)			
IC1002	8-759-711-85	IC NJM4580E-D			
IC1005	8-759-233-44	IC TC74HC595AF			
IC1006	8-759-711-85	IC NJM4580E-D			
IC1009	8-759-711-85	IC NJM4580E-D			
IC1010	8-759-835-78	IC TC9274N-015			
IC1011	8-759-711-85	IC NJM4580E-D			
IC1012	8-759-711-85	IC NJM4580E-D			
IC1013	8-759-711-85	IC NJM4580E-D			
IC1014	8-759-711-85	IC NJM4580E-D			
IC1015	8-759-835-78	IC TC9274N-015			
IC1016	8-759-711-85	IC NJM4580E-D			
IC1017	8-759-711-85	IC NJM4580E-D			
IC1018	8-759-711-85	IC NJM4580E-D			
		< JACK >			
J1001	1-784-934-11	JACK, PIN 4P (AUDIO PHONO IN, TUNER IN)			
J1002	1-784-934-11	JACK, PIN 4P (VIDEO AUDIO TV/SAT IN, DVD IN)			
J1003	1-784-934-11	JACK, PIN 4P (VIDEO AUDIO LD IN, VIDEO 4 IN)			
J1004	1-784-934-11	JACK, PIN 4P (VIDEO AUDIO VIDEO 3 IN, VIDEO 3 OUT)			
J1005	1-784-934-11	JACK, PIN 4P (VIDEO AUDIO VIDEO 2 IN, VIDEO 2 OUT)			
J1006	1-784-934-11	JACK, PIN 4P (VIDEO AUDIO VIDEO 1 IN, VIDEO 1 OUT)			
		< TRANSISTOR >			
Q1001	8-729-421-19	TRANSISTOR	UN2213		
Q1002	8-729-424-08	TRANSISTOR	UN2111		
Q1003	8-729-421-19	TRANSISTOR	UN2213		
Q1004	8-729-424-08	TRANSISTOR	UN2111		
Q1005	8-729-421-19	TRANSISTOR	UN2213		
Q1006	8-729-424-08	TRANSISTOR	UN2111		
		< RESISTOR >			
R1001	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1002	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1003	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1004	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1005	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1006	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1007	1-259-987-11	CARBON MELF	220	2%	1/8W
R1008	1-259-983-11	CARBON MELF	100	2%	1/8W
R1009	1-259-983-11	CARBON MELF	100	2%	1/8W
R1010	1-259-987-11	CARBON MELF	220	2%	1/8W
R1011	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1012	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1017	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R1018	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R1021	1-260-017-11	CARBON MELF	56K	2%	1/8W
R1022	1-260-017-11	CARBON MELF	56K	2%	1/8W
R1023	1-259-984-11	CARBON MELF	120	2%	1/8W
R1024	1-259-984-11	CARBON MELF	120	2%	1/8W
R1030	1-259-996-11	CARBON MELF	1.2K	2%	1/8W
R1031	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1032	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1033	1-259-996-11	CARBON MELF	1.2K	2%	1/8W
R1036	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1037	1-260-020-11	CARBON MELF	100K	2%	1/8W
R1044	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1045	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1053	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1054	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1055	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1056	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1057	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1058	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1061	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1062	1-259-977-11	CARBON MELF	33	2%	1/8W
R1063	1-259-977-11	CARBON MELF	33	2%	1/8W
R1064	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1065	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1066	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1067	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1068	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1069	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1070	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1071	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1072	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1073	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1074	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1075	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1076	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1077	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1078	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1079	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1080	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1081	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R1082	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1083	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R1084	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1085	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1086	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1087	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1088	1-259-999-11	CARBON MELF	2.2K	2%	1/8W

Ref. No.	Part No.	Description			Remark
R1089	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1090	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R1091	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1092	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1093	1-259-995-11	CARBON MELF	1K	2%	1/8W
R1094	1-259-977-11	CARBON MELF	33	2%	1/8W
R1095	1-259-977-11	CARBON MELF	33	2%	1/8W
R1096	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R1097	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1098	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1099	1-208-437-41	RES-CHIP	1K	2%	1/10W
R1100	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R1106	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1107	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1108	1-260-016-11	CARBON MELF	47K	2%	1/8W
R1109	1-208-462-41	RES-CHIP	10K	2%	1/10W
R1110	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R1111	1-216-295-00	SHORT CHIP	0		
		< RELAY >			
RY1003	1-755-486-11	RELAY			

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Ref. No.	Part No.	Description			Remark
	A-4733-744-A	S-VIDEO BOARD, COMPLETE ***********************			
		< CAPACITOR >			
C401	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C402	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C403	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C404	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C405	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C406	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C408	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C409	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C410	1-119-824-11	ELECT	10uF	20%	50V
C412	1-119-824-11	ELECT	10uF	20%	50V
C413	1-119-820-11	ELECT	1uF	20%	50V
C414	1-119-824-11	ELECT	10uF	20%	50V
C416	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C417	1-136-165-00	MYLAR	0.1uF	5%	50V
C418	1-136-165-00	MYLAR	0.1uF	5%	50V
C419	1-136-165-00	MYLAR	0.1uF	5%	50V
C420	1-119-824-11	ELECT	10uF	20%	50V
C421	1-136-165-00	MYLAR	0.1uF	5%	50V
C422	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C423	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C424	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C425	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C426	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C427	1-136-165-00	MYLAR	0.1uF	5%	50V
C428	1-136-165-00	MYLAR	0.1uF	5%	50V
C429	1-119-824-11	ELECT	10uF	20%	50V
C430	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C431	1-136-165-00	MYLAR	0.1uF	5%	50V
C432	1-136-165-00	MYLAR	0.1uF	5%	50V
C433	1-136-165-00	MYLAR	0.1uF	5%	50V
C434	1-136-165-00	MYLAR	0.1uF	5%	50V
C435	1-119-824-11	ELECT	10uF	20%	50V
C436	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C437	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C439	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C440	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C441	1-119-824-11	ELECT	10uF	20%	50V
C442	1-119-824-11	ELECT	10uF	20%	50V
C443	1-128-832-11	ELECT	220uF	20%	10V
C444	1-119-824-11	ELECT	10uF	20%	50V
C445	1-119-824-11	ELECT	10uF	20%	50V
C446	1-119-824-11	ELECT	10uF	20%	50V
C447	1-119-824-11	ELECT	10uF	20%	50V
C448	1-128-832-11	ELECT	220uF	20%	10V
C449	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C450	1-127-718-91	ELECT	100uF	20%	16V
C451	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C452	1-127-718-91	ELECT	100uF	20%	16V
C453	1-127-718-91	ELECT	100uF	20%	16V
C454	1-127-718-91	ELECT	100uF	20%	16V
C456	1-127-718-91	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN401	1-770-412-11	CONNECTOR, BOARD TO BOARD 6P			
CN402	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P			
CN403	1-784-921-11	PIN, CONNECTOR 4P			
		< DIODE >			
D401	8-719-016-74	DIODE 1SS352			
		< IC >			
IC401	8-759-837-27	IC LA7108M-TLM			
IC402	8-759-837-27	IC LA7108M-TLM			
IC403	8-759-663-94	IC LA7106M-TLM			
IC404	8-759-663-94	IC LA7106M-TLM			
IC405	8-759-711-85	IC NJM4580E-D			
IC406	8-759-009-05	IC MC14051BF			
IC407	8-759-009-05	IC MC14051BF			
IC408	8-759-009-05	IC MC14051BF			
IC409	8-759-009-05	IC MC14051BF			
IC410	8-759-009-05	IC MC14051BF			
IC411	8-759-710-86	IC NJM2233BM			
IC412	8-759-710-86	IC NJM2233BM			
		< JACK >			
J401	1-779-801-11	CONNECTOR (ROUND TYPE) (MONITOR OUT S2 VIDEO OUT1, OUT2)			
J402	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO S2 VIDEO DVD IN, TV/SAT IN)			
J403	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO S2 VIDEO VIDEO 4 IN, LD IN)			
J404	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO S2 VIDEO VIDEO 3 OUT, IN)			
J405	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO S2 VIDEO VIDEO 2 OUT, IN)			
J406	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO S2 VIDEO VIDEO 1 OUT, IN)			

S-VIDEO **VIDEO**

Ref. No.	Part No.	Description			Remark
		< COIL >			
L401	1-410-775-21	INDUCTOR	10mH		
		< TRANSISTOR >			
Q401	8-729-421-19	TRANSISTOR	UN2213		
Q402	8-729-424-18	TRANSISTOR	UN2113		
Q403	8-729-421-19	TRANSISTOR	UN2213		
Q404	8-729-424-18	TRANSISTOR	UN2113		
		< RESISTOR >			
R401	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R402	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R403	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R404	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R405	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R406	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R407	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R408	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R409	1-208-462-41	RES-CHIP	10K	2%	1/10W
R410	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R411	1-208-462-41	RES-CHIP	10K	2%	1/10W
R412	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R415	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R416	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R418	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R420	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R421	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R422	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R423	1-208-526-41	RES-CHIP	47K	2%	1/10W
R424	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R425	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R426	1-208-526-41	RES-CHIP	47K	2%	1/10W
R427	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R428	1-208-558-41	RES-CHIP	1M	2%	1/10W
R429	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R430	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R431	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R432	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R433	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R434	1-208-526-41	RES-CHIP	47K	2%	1/10W
R435	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R436	1-208-526-41	RES-CHIP	47K	2%	1/10W
R437	1-208-526-41	RES-CHIP	47K	2%	1/10W
R438	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R439	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R440	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R441	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R442	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R443	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R444	1-208-526-41	RES-CHIP	47K	2%	1/10W
R445	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R446	1-208-462-41	RES-CHIP	10K	2%	1/10W
R447	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R449	1-208-462-41	RES-CHIP	10K	2%	1/10W
R450	1-208-462-41	RES-CHIP	10K	2%	1/10W
R451	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R452	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R453	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R454	1-208-462-41	RES-CHIP	10K	2%	1/10W
R455	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R456	1-208-526-41	RES-CHIP	47K	2%	1/10W
R457	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R458	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R460	1-208-526-41	RES-CHIP	47K	2%	1/10W
R461	1-208-526-41	RES-CHIP	47K	2%	1/10W
R462	1-208-526-41	RES-CHIP	47K	2%	1/10W
R464	1-208-526-41	RES-CHIP	47K	2%	1/10W
R465	1-208-526-41	RES-CHIP	47K	2%	1/10W
R466	1-208-526-41	RES-CHIP	47K	2%	1/10W
R467	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R468	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R469	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R470	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R471	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R472	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R474	1-208-526-41	RES-CHIP	47K	2%	1/10W
R475	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R476	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R478	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R479	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R480	1-208-526-41	RES-CHIP	47K	2%	1/10W
R481	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R482	1-208-526-41	RES-CHIP	47K	2%	1/10W
R492	1-208-437-41	RES-CHIP	1K	2%	1/10W
R493	1-208-437-41	RES-CHIP	1K	2%	1/10W
R494	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R495	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R496	1-216-627-11	METAL CHIP	100	0.5%	1/10W

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Ref. No.	Part No.	Description			Remark
	A-4733-743-A	VIDEO BOARD, COMPLETE *********************			
		< CAPACITOR >			
C301	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C302	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C303	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C304	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C305	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C306	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C307	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C308	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C309	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C310	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C311	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C312	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C313	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C314	1-119-824-11	ELECT	10uF	20%	50V
C315	1-119-824-11	ELECT	10uF	20%	50V
C316	1-119-824-11	ELECT	10uF	20%	50V
C317	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C318	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C319	1-119-824-11	ELECT	10uF	20%	50V
C320	1-119-824-11	ELECT	10uF	20%	50V
C321	1-119-824-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C322	1-119-824-11	ELECT	10uF	20%	50V
C323	1-119-824-11	ELECT	10uF	20%	50V
C324	1-119-824-11	ELECT	10uF	20%	50V
C325	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C326	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C327	1-119-824-11	ELECT	10uF	20%	50V
C328	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C329	1-119-824-11	ELECT	10uF	20%	50V
C330	1-119-824-11	ELECT	10uF	20%	50V
C331	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C332	1-119-824-11	ELECT	10uF	20%	50V
C333	1-119-824-11	ELECT	10uF	20%	50V
C334	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C335	1-119-824-11	ELECT	10uF	20%	50V
C336	1-119-824-11	ELECT	10uF	20%	50V
C337	1-119-824-11	ELECT	10uF	20%	50V
C338	1-128-832-11	ELECT	220uF	20%	10V
C339	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C340	1-127-718-91	ELECT	100uF	20%	16V
C341	1-127-718-91	ELECT	100uF	20%	16V
C342	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C343	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C344	1-127-718-91	ELECT	100uF	20%	16V
C345	1-127-718-91	ELECT	100uF	20%	16V
C346	1-127-718-91	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN301	1-770-405-11	CONNECTOR, BOARD TO BOARD 8P			
CN302	1-770-410-11	CONNECTOR, BOARD TO BOARD 18P			
* CN303	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< IC >			
IC301	8-759-238-47	IC TC74HCT7007AF (EL)			
IC302	8-759-233-44	IC TC74HC595AF			
IC303	8-759-233-44	IC TC74HC595AF			
IC304	8-759-837-27	IC LA7108M-TLM			
IC305	8-759-663-94	IC LA7106M-TLM			
IC306	8-759-009-05	IC MC14051BF			
IC307	8-759-009-05	IC MC14051BF			
IC308	8-759-710-86	IC NJM2233BM			
		< JACK >			
J301	1-793-522-11	JACK, PIN 2P (MONITOR OUT VIDEO OUT 1, OUT 2)			
J302	1-785-866-21	JACK, PIN 3P (VIDEO TV/SAT IN, DVD IN, LD IN)			
J303	1-793-522-11	JACK, PIN 2P (VIDEO VIDEO 4 IN, VIDEO 3 IN))			
J304	1-793-522-11	JACK, PIN 2P (VIDEO VIDEO 3 OUT, VIDEO 2 IN)			
J305	1-785-866-21	JACK, PIN 3P (VIDEO VIDEO 2 OUT, VIDEO 1 IN, VIDEO 1 OUT)			
		< RESISTOR >			
R301	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R302	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R303	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R304	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R305	1-216-627-11	METAL CHIP	100	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R306	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R307	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R308	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R309	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R310	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R311	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R312	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R313	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R314	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R315	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R316	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R317	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R318	1-208-526-41	RES-CHIP	47K	2%	1/10W
R319	1-208-526-41	RES-CHIP	47K	2%	1/10W
R320	1-208-526-41	RES-CHIP	47K	2%	1/10W
R321	1-208-526-41	RES-CHIP	47K	2%	1/10W
R322	1-208-526-41	RES-CHIP	47K	2%	1/10W
R323	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R324	1-208-526-41	RES-CHIP	47K	2%	1/10W
R325	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R326	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R327	1-208-462-41	RES-CHIP	10K	2%	1/10W
R328	1-208-462-41	RES-CHIP	10K	2%	1/10W
R329	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R330	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R331	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R332	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R333	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R334	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R335	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R336	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R337	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R338	1-208-462-41	RES-CHIP	10K	2%	1/10W
R339	1-208-462-41	RES-CHIP	10K	2%	1/10W
R340	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R347	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R349	1-216-627-11	METAL CHIP	100	0.5%	1/10W

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Ref. No.	Part No.	Description
	1-688-677-11	VOL BOARD *********
		< ROTARY ENCODER >
RV703	1-477-382-11	ENCODER, ROTARY (MASTER VOLUME)

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Ref. No.	Part No.	Description
	A-4733-741-A	VOL. LED BOARD, COMPLETE ***********************
		< CONNECTOR >
CNS708	1-568-741-11	SOCKET, CONNECTOR 23P
		< LED >
D723	6-500-475-01	LED SML310BATT86 (ILLUMINATION)
D724	6-500-475-01	LED SML310BATT86 (ILLUMINATION)
D725	6-500-475-01	LED SML310BATT86 (ILLUMINATION)
D726	6-500-475-01	LED SML310BATT86 (ILLUMINATION)
D727	6-500-475-01	LED SML310BATT86 (ILLUMINATION)

VOL. LED

Ref. No.	Part No.	Description	Remark
D728	6-500-475-01	LED SML310BATT86 (ILLUMINATION)	
D729	6-500-475-01	LED SML310BATT86 (ILLUMINATION)	
D730	6-500-475-01	LED SML310BATT86 (ILLUMINATION)	
D731	6-500-475-01	LED SML310BATT86 (ILLUMINATION)	
D732	6-500-475-01	LED SML310BATT86 (ILLUMINATION)	
D733	6-500-475-01	LED SML310BATT86 (ILLUMINATION)	
D734	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D735	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D736	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D737	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D738	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D739	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D740	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D741	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
D742	8-719-067-00	LED SML-210DTT86(ILLUMINATION)	
		< RESISTOR >	
R744	1-208-425-41	RES-CHIP 330 2% 1/10W	
R745	1-216-635-11	METAL CHIP 220 0.5% 1/10W	

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
104	1-773-175-11	WIRE (FLAT TYPE) (23 CORE)	
504	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
554	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
556	1-500-021-11	CLAMP, SLEEVE FERRITE	
557	1-500-511-11	CORE, FERRITE	
⚠F1	1-532-506-51	FUSE (T6.3A/250V) (AEP, KR)	
⚠F1	1-576-379-11	FUSE (15A/250V) (TW)	
⚠F2	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F802	1-532-464-51	FUSE (T2.5A/125V) (AEP, KR)	
⚠F802	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F803	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F803	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F804	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F804	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F805	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F805	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F806	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F806	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F807	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F807	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F808	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F808	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
⚠F809	1-532-464-51	FUSE (T2.5A/250V) (AEP, KR)	
⚠F809	1-533-418-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A/125V) (TW)	
Q807	6-550-629-01	FET 2SK1382	
Q808	6-550-629-01	FET 2SK1382	
Q822	8-749-010-25	IC MN2488-0PY-M	
Q823	8-749-010-25	IC MN2488-0PY-M	
⚠T1	1-439-818-11	TRANSFORMER, POWER (AEP, KR)	
⚠T1	1-439-876-11	TRANSFORMER, POWER (TW)	
THP1	1-817-728-11	SENSOR, THERMISTOR	

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ACCESSORIES
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Ref. No.	Part No.	Description	Remark
	1-478-001-11	COMMANDER, STANDARD (RM-LJ312)	
⚠	1-551-631-22	CORD, POWER (AEP)	
⚠	1-828-109-11	CORD, POWER (TW)	
⚠	1-828-063-11	CORD, POWER (KR)	
	4-241-478-01	COVER, BATTERY (for RM-LJ312)	
	4-247-235-11	MANUAL, INSTRUCTION (for RM-LJ312) (ENGLISH) (AEP, TW)	
	4-247-235-21	MANUAL, INSTRUCTION (for RM-LJ312) (FRENCH) (AEP)	
	4-247-235-31	MANUAL, INSTRUCTION (for RM-LJ312) (SPANISH, GERMAN, DUTCH, ITALIAN, SWEDISH, POLISH) (AEP)	
	4-247-235-41	MANUAL, INSTRUCTION (for RM-LJ312) (KOREAN) (KR)	
	4-247-235-51	MANUAL, INSTRUCTION (for RM-LJ312) (PORUTUGUESE, DANNISH, FINNISH, RUSSIAN) (AEP)	
	4-247-235-61	MANUAL, INSTRUCTION (for RM-LJ312) (GREEK, HUNGARIAN, CZECH, SLOVAKIAN) (AEP)	
	4-247-235-71	MANUAL, INSTRUCTION (for RM-LJ312) (TRADITIONAL CHINESE, SIMPLIFIED CHINESE) (TW)	
	4-249-347-13	MANUAL, INSTRUCTION (ENGLISH) (AEP, TW)	
	4-249-347-22	MANUAL, INSTRUCTION (FRENCH) (AEP)	
	4-249-347-32	MANUAL, INSTRUCTION (SPANISH) (AEP)	
	4-249-347-42	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN) (AEP)	
	4-249-347-52	MANUAL, INSTRUCTION (SWEDISH, POLISH) (AEP)	
	4-249-347-62	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (TW)	
	4-249-347-71	MANUAL, INSTRUCTION (KOREAN) (KR)	
	4-249-348-11	MANUAL, INSTRUCTION (PORUTUGUESE) (AEP)	
	4-249-348-21	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)	
	4-249-348-31	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
	4-249-348-41	MANUAL, INSTRUCTION (GREEK) (AEP)	
	4-249-348-51	MANUAL, INSTRUCTION (HUNGARIAN, CZECH) (AEP)	
	4-249-348-61	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP	

The components identified by mark ⚠ or dotte
line with mark ⚠ are critical for safety.
Replace only with part number specified.